



State of Kansas Data Access & Support Center

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State of Kansas Data Access & Support Center

The Data Access & Support Center (DASC) serves as the geospatial data clearinghouse for the State of Kansas. DASC was formed by the Kansas GIS Policy Board in 1991, and is located at the Kansas Geological Survey (KGS) at the University of Kansas. DASC operates under the direction of the Kansas GIS Director and Kansas GIS Policy Board, and provides a variety of services to the Kansas GIS community including:

- Database archival and distribution;
- Database quality assurance/quality control (QA/QC);
- Technical assistance;
- Geospatial metadata development assistance;
- Web application development and hosting;
- Database development;
- Cartographic development;
- Promotion of the Kansas GIS Initiative.

This report provides a detailed description of the services provided by DASC during State of Kansas Fiscal Year 2005 (July 1, 2004 – June 30, 2005).





State of Kansas Data Access & Support Center

Executive Summary

Since its inception in 1991, DASC has served as the geospatial data clearinghouse for the State of Kansas. Over the past 14 years, geospatial technology has changed significantly - hardware and software costs have decreased, database development and maintenance has become more manageable, and access to geospatial technology has improved. DASC has worked hard over the years to stay at the leading edge of geospatial technology to meet the needs of the growing Kansas GIS community.

A key reason for the significant growth in geospatial technology has been the development of web-based GIS software. In Fall, 2000, DASC drafted the following mission statement: *"Implement cutting-edge technology to transition DASC from a traditional GIS data clearinghouse to a web-based GIS service provider."* This mission statement has guided the development of DASC's web portal, the Kansas Geospatial Community Commons (KGCC), and DASC's Web Services Initiative.

During FY05, DASC provided access to the *Kansas Geodatabase* in a variety of ways. In the more traditional sense, DASC distributed over 333,000 files, representing over 4.5 Terabytes (TB) of data. Of these files, over 265,000 were downloaded from the KGCC web site. DASC continued to provide web-based GIS application development services for state and local government, and non-profit organizations. Web-based GIS applications have proven to be an effective way to enhance access to the *Kansas Geodatabase* and broaden the reach of the Kansas GIS Initiative. Historically, only those with expensive GIS software, high-end workstations, and technical training could benefit from the state's investment in geospatial technology and data. The availability of web-based GIS software combined with DASC's Web Services Initiative, has allowed more users to benefit from geospatial technology, resulting in a much larger return on investment.

During FY05, DASC continued to serve the Kansas GIS community and promote the vision and concepts of the Kansas GIS Initiative. DASC staff gave several presentations at GIS-related events and conferences. DASC staff members also served on several GIS planning committees including the Kansas GIS Policy Board's Technical Advisory Committee (TAC), the Kansas Association of Mappers (KAM), and the MidAmerica



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GIS Consortium (MAGIC). In an effort to seek more interaction with the Kansas GIS community, DASC made enhancements to the KGCC web site and developed a series of publication tools that allow registered organizations and users to publish and share information about their GIS programs. Ultimately, DASC would like to see the information that is published on the KGCC web site evolve into a statewide inventory for all GIS-related activities.

In an effort to enhance its server redundancy and failover capabilities, DASC began a project to establish an offsite backup server. In collaboration with the United States Geological Survey (USGS) and the Arkansas Geographic Information Office (AGIO), DASC began acquiring the hardware and software components necessary to fully replicate the *Kansas Geodatabase* and the KGCC web portal. The system is expected to be installed and operational in FY06.

In FY06, DASC will continue to implement web-based technologies in order to expand its database access model. Slated for FY06 is a new version of the *Kansas Geodatabase Catalog* that will make data easier to find, include an interactive map preview for each data layer, provide access to data via map services, and offer data download in multiple formats. DASC will also continue to provide web application development and hosting services to the Kansas GIS community. Additionally, DASC will help facilitate the formation of data committees to more closely examine the data requirements of the Kansas GIS community. These committees will expand TAC membership, involve more subject matter experts, and improve the quality and usability of the *Kansas Geodatabase*.

The following report provides a detailed description of DASC's objectives and accomplishments during FY05, and identifies initiatives and direction for the coming year.





State of Kansas Data Access & Support Center

Funding

DASC relies on three primary funding sources to support the variety of services it offers. These funding sources include the annual baseline funding provided by the State of Kansas Department of Administration (KDA) – Division of Information Systems and Communications (DISC), in-kind support provided by the Kansas Geological Survey (KGS), and fee-for-service activities. The FY05 baseline funding provided by DISC was \$246,316. The DISC funding provides salary support for the following positions: two full-time GIS specialists; one full-time web application developer; one half-time research aide; and half-time salary support for the DASC manager position. The budget also helps to cover costs of hardware and software acquisition, maintenance fees, and limited in-state and out-of-state travel. KGS provides operational support to the DASC in the form of office space, telecommunications, use of KGS vehicles, and access to computer support staff.

In addition to the annual funding provided by DISC and the operational support provided by KGS, DASC also generates revenue through fee-for-service activities and grant funding opportunities. The revenue generated by these activities (usually referred to as “additional initiatives” or “secondary services”) broadens the scope of the DASC program, increase our capacity to provide service, and helps to cover the rising hardware and software costs of providing IT-related services. Because the additional initiatives do not follow set fiscal calendars, the most effective way to quantify the level of activity within any given state fiscal year is to calculate the total salary expenses for the entire DASC staff, not just those funded by the annual contract. The total DASC staff expenses (gross salary + fringe benefits) for FY2005 exceeded \$330,000. This total staffing expense fluctuates annually depending on the amount of fee-for-service or grant-related activity. Considering the various funding sources, the total financial commitment required to fund the DASC operation during FY05 exceeded \$400,000.

While this funding model is a management challenge, it allows the costs of the primary clearinghouse services to be covered by the annual baseline budget (provided by DISC), and any additional or “custom” work to be funded by individual customers. This practice is in keeping with the concept of “primary” and “secondary” services detailed in the DASC contract and has been employed by DASC since its inception in 1991. DASC is interested in investigating funding models that could provide more stability to the staff and services supported by fee-for-service activities, as these are variable by nature.

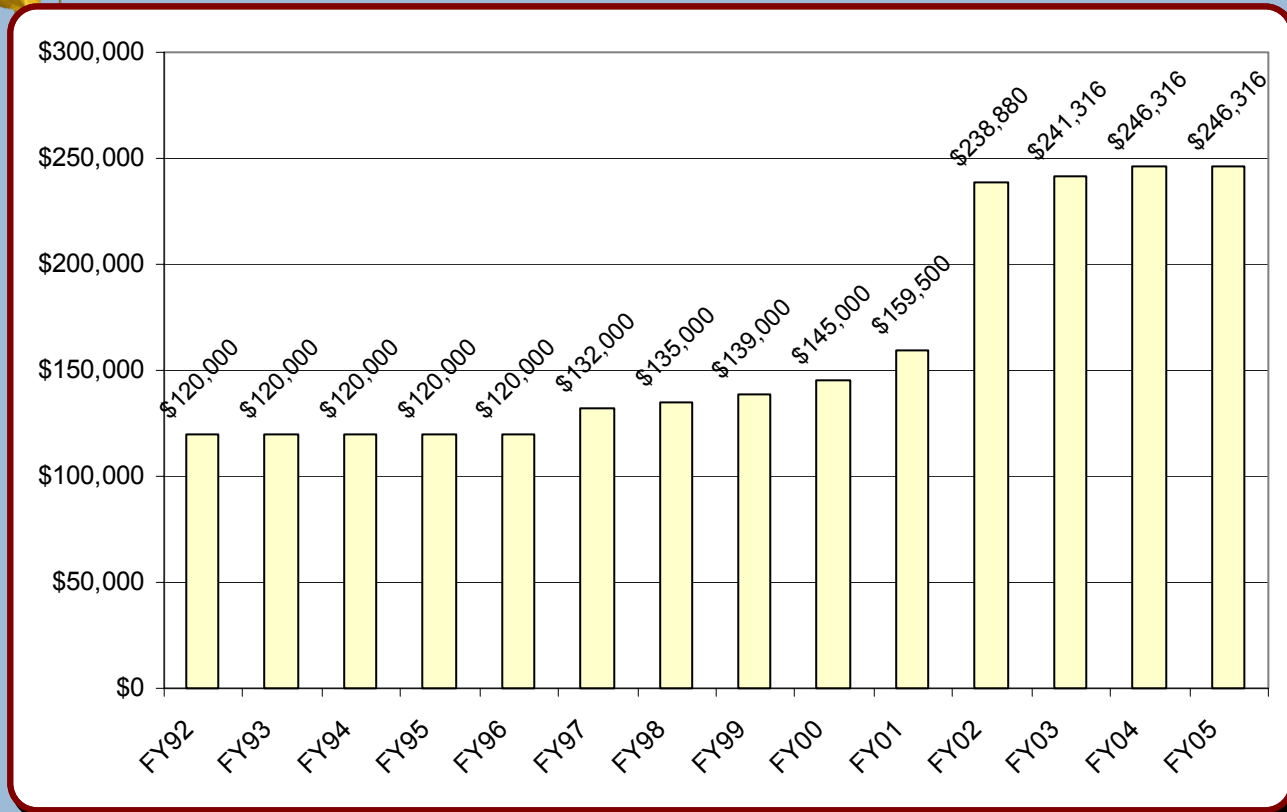




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DASC Baseline Budget: FY92 – FY05

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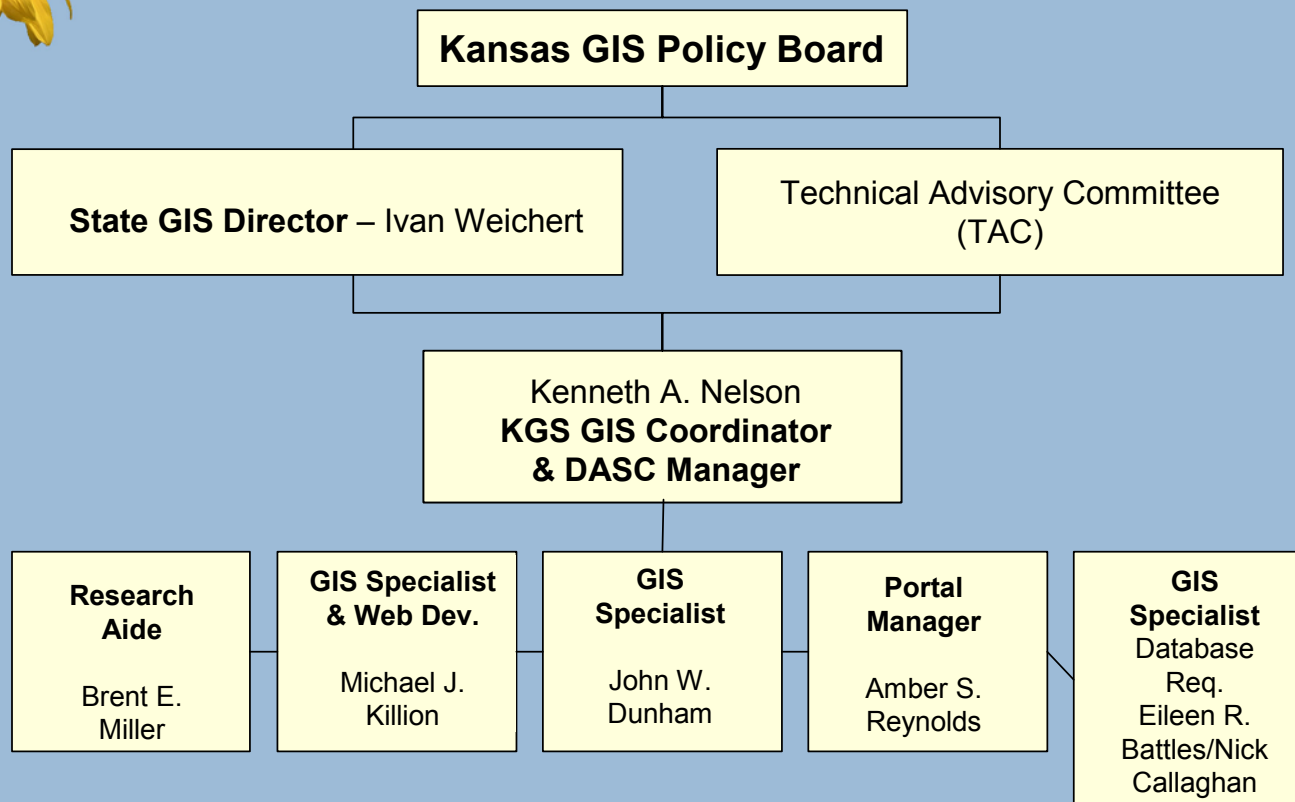




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DASC Organizational Chart - FY05

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IT Architecture

Note: As previously noted, DASC is located at KGS and benefits from the KGS IT infrastructure and computer services staff. The resources and practices listed below represent the efforts of both DASC staff and support from KGS computer services staff.

Software environment:

Function	Product	Platform
Web server	Apache HTTP Server	Unix/Windows
Servlet engine	Apache Tomcat	Unix/Windows
Web application server	ColdFusion	Windows
GIS Software	ArcGIS	Unix/Windows
Internet Map Server	ArcIMS	Windows
Spatial Database Engine	ArcSDE	Unix
RDBMS	Oracle	Unix

Hardware environment:

Web application server:	Dell PowerEdge, Dual Xeon 3.2 Ghz, 1GB RAM
RDBMS server:	SunFire, Quad UltraSparc III, 16GB RAM, 2+TB storage, RAID 5 configuration
Web document server:	Adaptec Snap Server, 1.5TB, RAID 5 configuration





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Backup Policy

Redundant data backup

- On-site/Off-site
- Multiple electronic media format (CD, 8mm tape, DLT tape, DVD)
- Oracle backup & file based system backup

Redundant Oracle server

- Nightly replication
- Hosted at KU Computer Center
- Hosted at the Arkansas Geographic Information Office (AGIO) – *under development*

Remote system management utilities

- System (stop/start services – Apache, Tomcat, ColdFusion, ArcIMS, reboot)
- MapServices (start/stop/add/remove/edit/transfer to backup server)
- Automated error-tracking and notification
- Only requires a browser – password protected

Redundant application servers (under development)

- Apache HTTP server
- Tomcat servlet engine
- ColdFusion/Java
- ArcIMS





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Remote Backup System

In an effort to enhance its server redundancy and failover capabilities, DASC began a project to establish an offsite backup server. In collaboration with the United States Geological Survey (USGS) and the Arkansas Geographic Information Office (AGIO), DASC began acquiring the hardware and software components necessary to fully replicate the *Kansas Geodatabase* and the KGCC web portal. The system is expected to be installed and operation in FY06 and will include the following components:

Hardware:

- RDBMS server - Sun Fire V240
- Application server – Dell PowerEdge 2850
- Storage array - HP StorageWorks MSA30
- Hard disk storage – (10) 146.8-GB 10,000 rpm
- Uninterruptible Power Supply (UPS) - APC 1000
- Rack storage – 15U height computer system rack

Software:

- ColdFusion MX 7 Application Server
- ArcIMS
- ArcSDE
- Oracle Standard Edition
- Apache HTTP Server
- Jakarta-Tomcat Servlet Engine

Once the system operational, DASC plans to make it available to other GIS data clearinghouses in the MAGIC region. On a related note, DASC began hosting a backup server for AGIO in FY04. Building on this collaborative relationship, DASC and AGIO have also begun discussing other partnership opportunities that could prove to be extremely beneficial for both organizations.





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Description of Primary Services

1. Review core data sets and check work of contracting agencies to assure compliance with contract specifications and Kansas database standards. Provide monthly and semi-annual database compliance reports to the Technical Advisory Committee (TAC);
2. Respond to requests for basic conversion services from all federal/state/municipal tax-supported agencies/entities for the cost of media and shipping and handling. Basic conversion services shall include the processing of the Kansas Geodatabase in their native projection and tiling scheme into DASC-supported spatial data exchange formats and also include technical support for the loading and importation of the data. Respond to requests on a need/priority basis established by the DASC manager and periodically reviewed by the TAC. Maintain an accurate and complete log of all requests, work, and consultation;
3. Provide basic conversion services to private sector or non-tax-supported organizations on a fee-for-service basis;
4. Provide supplemental conversion services to all organizations on a fee-for-service basis as specified in the DASC fee schedule. Supplemental services shall include the alteration of native projection, tiling scheme, or topological structure. Respond to requests on a need/priority basis established by the TAC;
5. Prepare, maintain, and distribute a Kansas Geodatabase catalog. Use various methods including the Kansas Geospatial Community Commons (KGCC) web site and GIS newsletters to distribute information on updates to the catalog;
6. Maintain an on-line digital data library of Federal Geographic Data Committee (FGDC) compliant metadata and GIS databases. Maintain a National Spatial Data Infrastructure (NSDI) compliant clearinghouse node on the Internet; as per the agreement with the USGS NSDI program. Archive old databases as revised databases are received from custodial agencies. Publish new databases received from custodial agencies that meet Kansas quality standards;
7. Work with the TAC and other appropriate groups on development, refinement and implementation of standards to facilitate data exchange and compatibility;
8. Document problems, errors, deficiencies and needs of the core database using established procedures for error reporting and internal error detection. Recommend corrective action;
9. Consult with the TAC on a regular basis regarding development and implementation of annual implementation plans, delivery of DASC services, coordination of agencies' database development projects and acquisition of digital data.

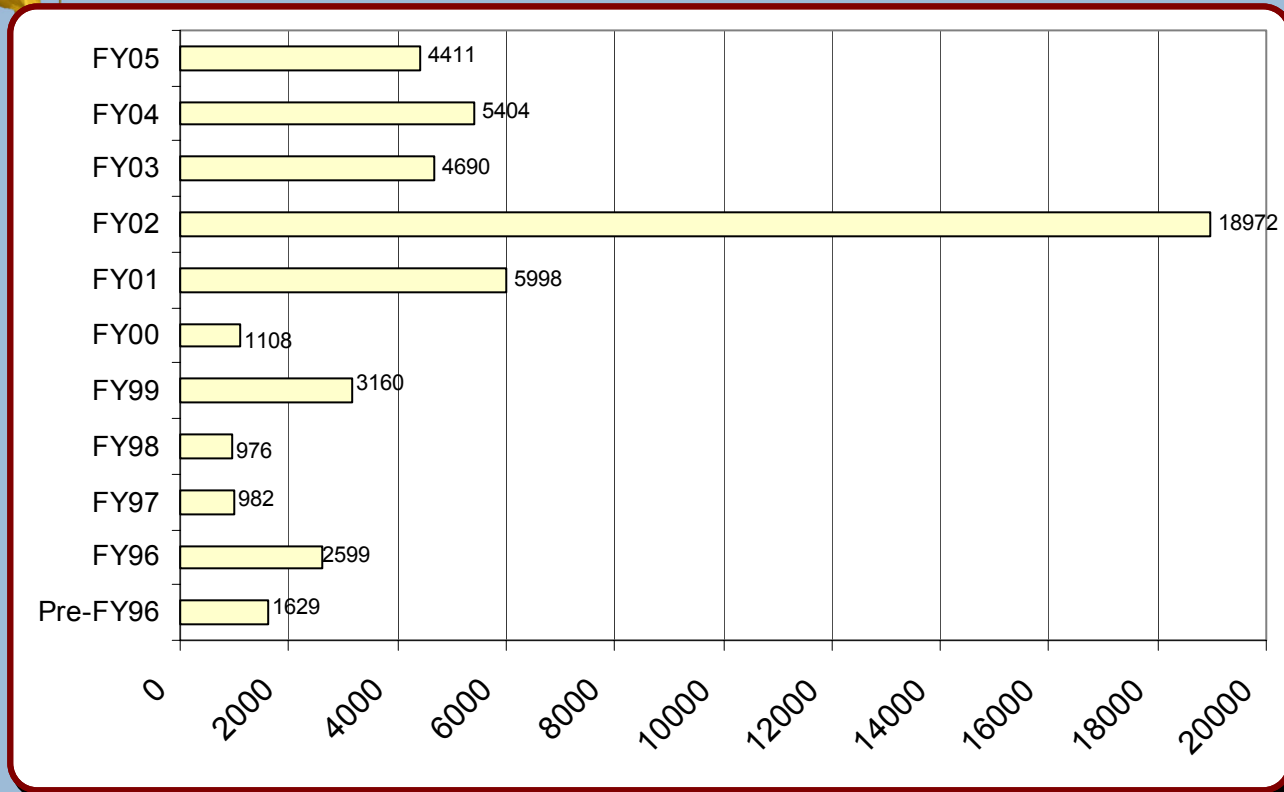




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Data Delivery Files Tested: FY96 – FY05

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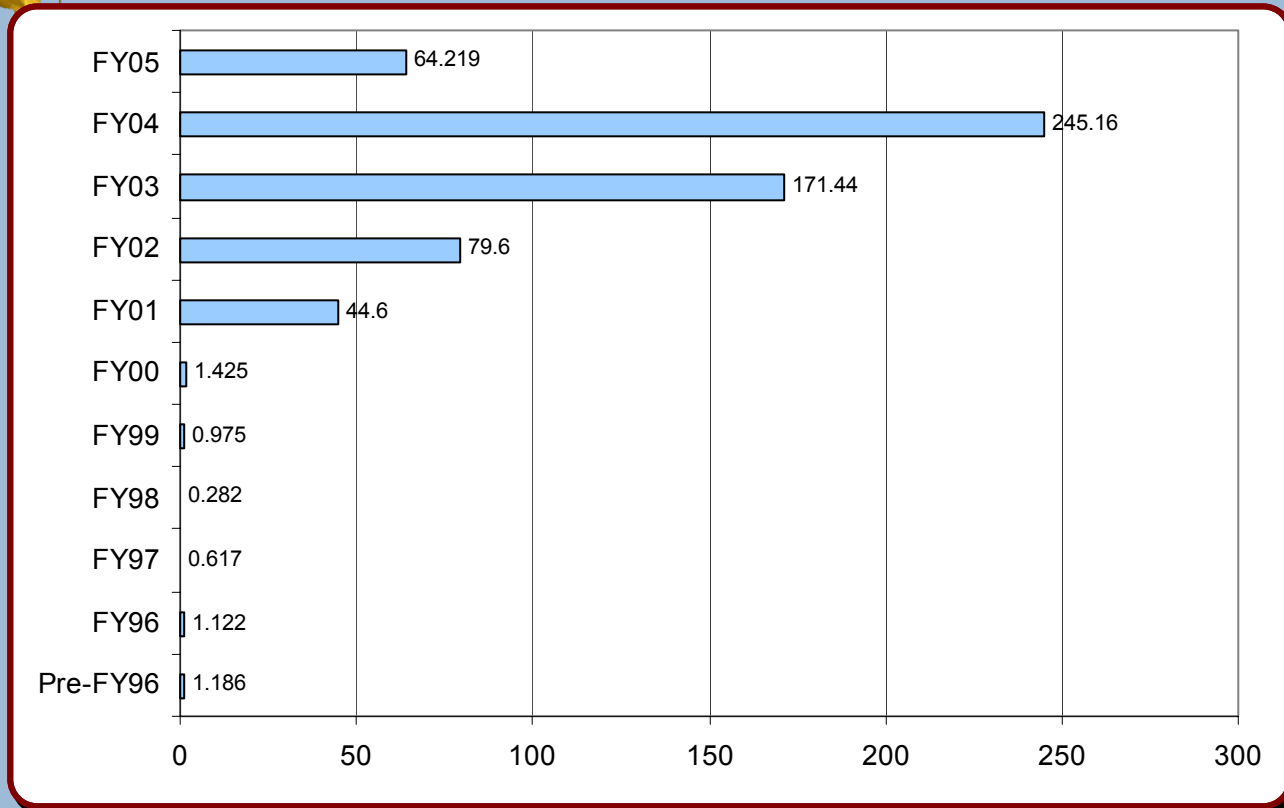
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Data Delivery File Size (GB) Tested: FY96 – FY05

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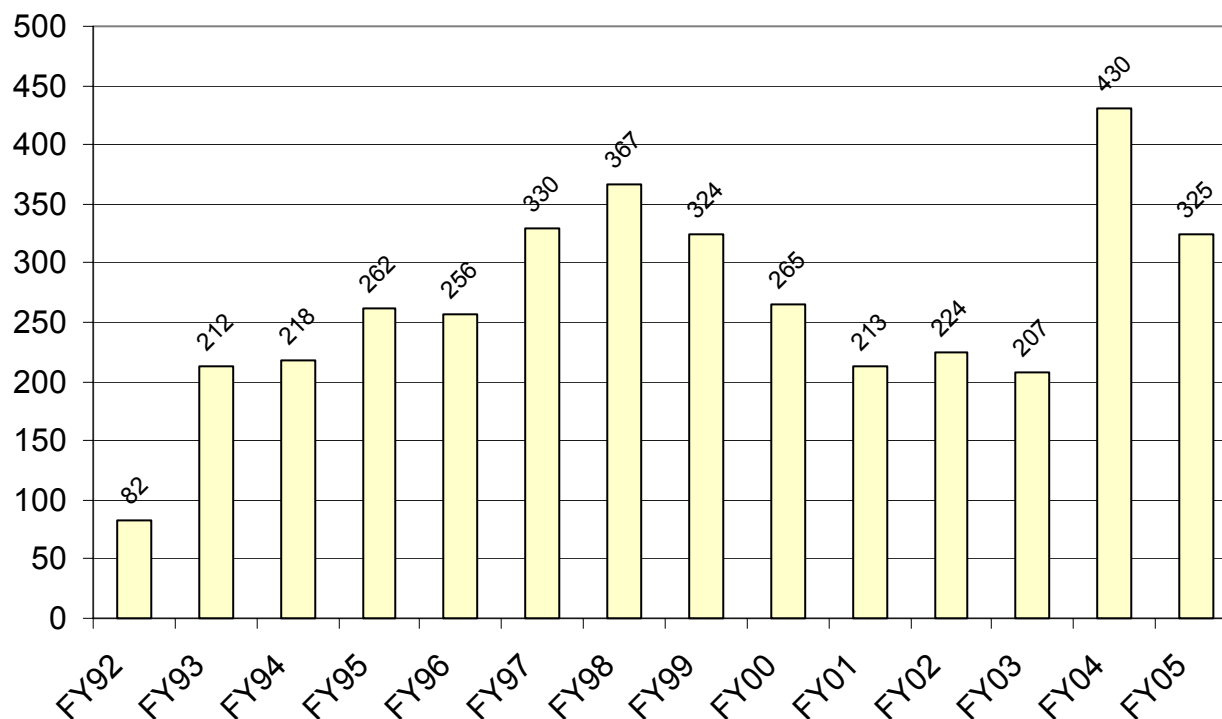
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Staff-Assisted Data Requests: FY92 – FY05

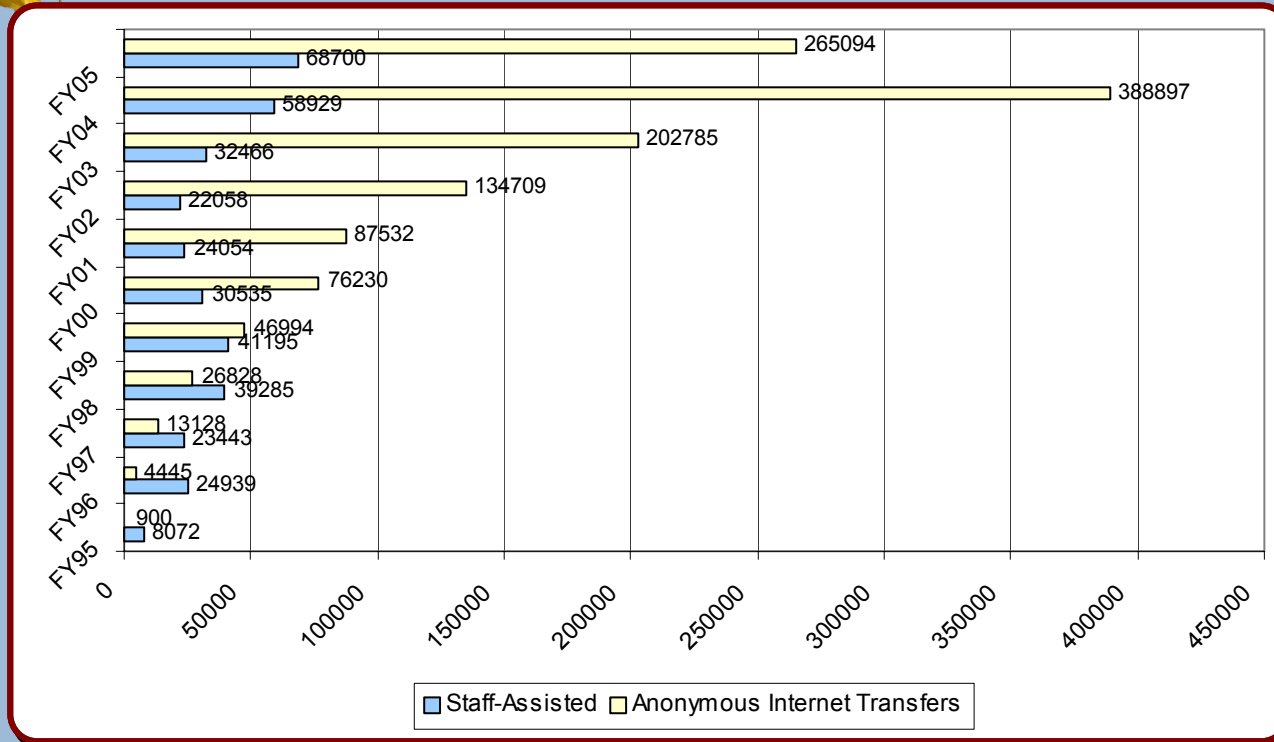




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Total Files Distributed: FY95 - FY05

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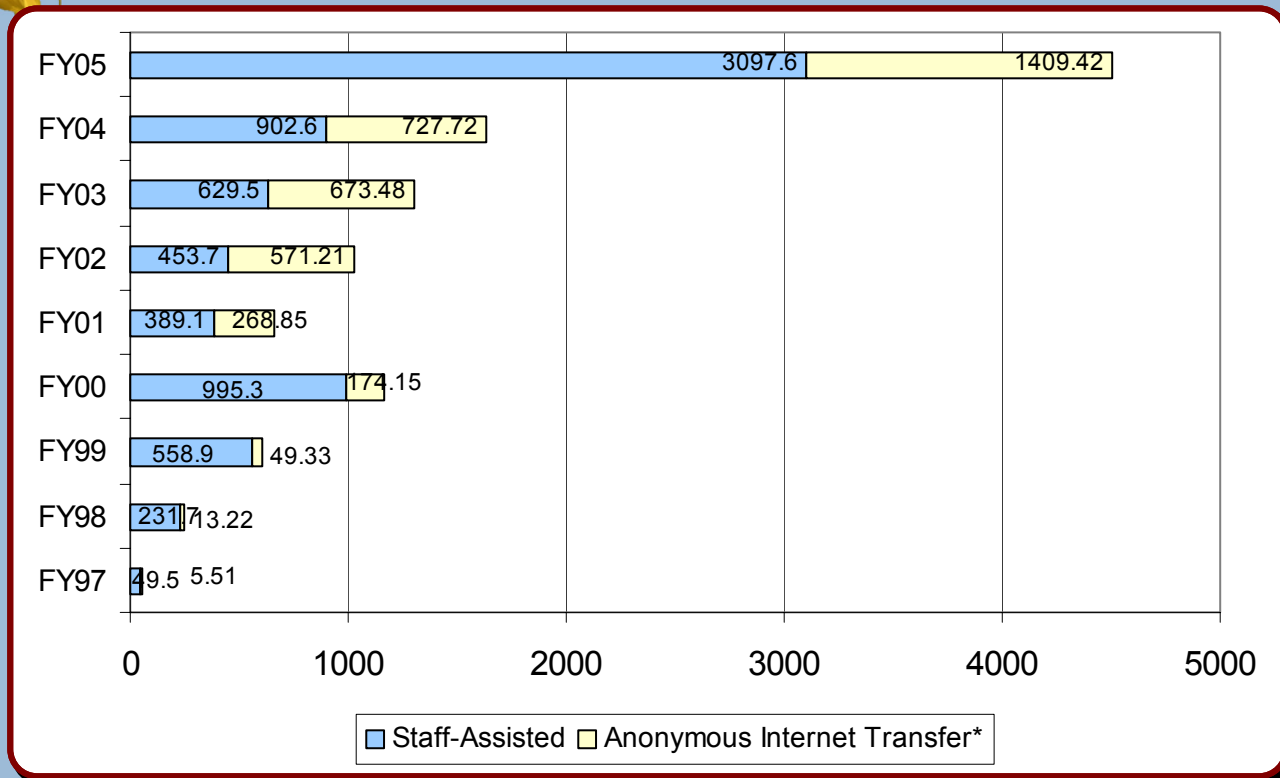
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Total File Size Distributed: FY97 - FY05

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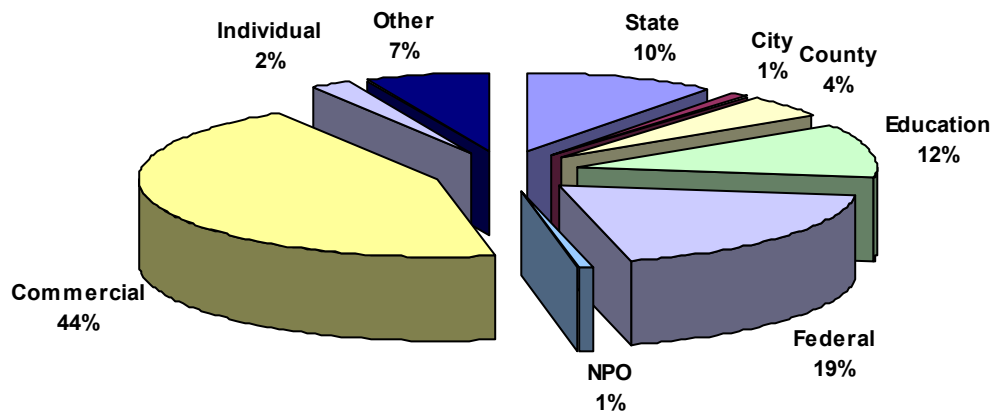
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State of Kansas Data Access & Support Center

Requests by Organization - FY05



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Data Access and Support Center																						
Distribution of Data Requests																						
Annual - FY2005																						
Database Name	State		City		County		Educational		Federal		NPO		Commercial		Individual		Other		FTP	Totals		
	No. Req	No. Files	No. Req	No. Files	No. Req	No. Files	No. Req	No. Files	No. Req	No. Files	No. Req	No. Files	No. Req	No. Files	No. Req	No. Files	No. Req	No. Files	No. Files	Requests	Files	
ADMINISTRATIVE BOUNDARIES	0	0	0	0	1	1	1	6	0	0	0	0	2	4	0	0	0	0	679	4	690	
ALLUVIAL AQUIFER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0	45	
DAKOTA AQUIFER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	32	
DESIGNATED CRITICAL HABITAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	0	81	
DETAILED SOILS 24K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3763	0	3763	
DIGITAL ELEVATION MODEL (DEM) 100K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3143	0	3143	
DIGITAL ELEVATION MODEL (DEM) 24K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24827	0	24827	
DIGITAL ELEVATION MODEL (DEM) 250K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	938	0	938	
DIGITAL LINE GRAPHS (DLG) 100K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12637	0	12637	
DIGITAL LINE GRAPHS (DLG) 24K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18407	0	18407	
DIGITAL LINE GRAPHS (DLG) 2MIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	652	0	652	
DIGITAL ORTHOPHOTO QUARTER QUADRANGLES (DOQQ) 1991	3	29	0	0	0	0	2	7	1	56	1	36	1	1	0	0	0	0	0	9	130	
DIGITAL ORTHOPHOTO QUARTER QUADRANGLES (DOQQ) 2002	19	22310	3	268	8	449	30	1470	53	18122	1	36	118	10863	4	119	11	12923	0	251	66645	
DIGITAL RASTER GRAPHICS (DRG) LAMBERT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4940	0	4940	
DIGITAL RASTER GRAPHICS (DRG) UTM NAD 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25459	0	25459	
DIGITAL RASTER GRAPHICS (DRG) UTM NAD 27 CLIPPED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6379	0	6379	
DIGITAL RASTER GRAPHICS (DRG) UTM NAD 83 CLIPPED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1518	11759	1	13277	
DIGITAL RASTER GRAPHICS (DRG) UTM NAD 83 COUNTY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2434	0	2434	
ENVIRONMENTAL DATA SOURCES (EDS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	258	0	258	
ENVIRONMENTAL MONITORING (EM)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	247	0	247	
ENVIRONMENTAL REGULATION (ER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303	0	303	
ENVIRONMENTAL RISK (ER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	230	0	230	
FEMA FLOOD INSURANCE STUDIES INVENTORY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	0	67	
FEMA Q3 FLOOD DATA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	304	0	304	
FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP)	3	117	0	0	2	8	0	0	1	3	0	0	0	0	1	105	0	0	2574	7	2807	
GAP ANALYSIS PROGRAM (GAP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2665	0	2665	
GAP ANALYSIS PROGRAM (GAP) ARCVIEW 3.X PROJECT & FINAL REPORT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GEOGRAPHIC NAMES INFORMATION SYSTEM (GNIS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

GEOLOGY	1	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	3069	2	3072
GEOLOGY - SURFICIAL 24K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	667	0	667
GLACIAL DRIFT AQUIFER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	23
GPS-BASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GROUND-BASED STATEWIDE VEGETATION SURVEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIGH PLAINS AQUIFER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	0	49
HIGHWAYS - KDOT	1	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	232	3	235
HUC 8/11 BOUNDARIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	0	82
HUC BOUNDARY 14-DIGIT LEVEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	0	73
HYDROGRAPHY 24K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10061	0	10061
HYP SOGRAPHY 100K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	508	0	508
KANSAS CARTOGRAPHIC DATABASE (KCD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	29	0	0	14395	1	14424
KANSAS SATELLITE IMAGE DATABASE (KSID)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11376	0	11376
LAND COVER	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1448	1	1449
LAND USE/LAND COVER 250K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	270	0	270
LANDSAT TM	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	30	2	32
LEGISLATIVE DISTRICTS - 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	159	0	159
LEGISLATIVE DISTRICTS - 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209	0	209
LEO 3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	22
LEO II PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11
MRSID COMPRESSED DIGITAL ORTHOPHOTO COUNTIES 1991	1	7	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	4836	3	4845
MRSID COMPRESSED DIGITAL ORTHOPHOTO COUNTIES 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3642	0	3642
NATIONAL ELEVATION DATASET (NED)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	583	0	583
NATIONAL HYDROGRAPHY DATASET (NHD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	339	0	339
NATIONAL WETLANDS INVENTORY (NWI)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2749	0	2749
NATURAL HERITAGE INVENTORY ELEMENT OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	0	81
OGALLALA BEDROCK DATA ENHANCEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8
OZARK AQUIFER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	20
PLAYA LAKES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14
PUBLIC LAND SURVEY SYSTEM (PLSS)	0	0	0	0	1	1	0	0	1	1	0	0	6	8	1	29	4	44	4638	13	4721
RIPARIAN INVENTORY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303	0	303
RURAL WATER DISTRIBUTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184	0	184
RURAL WATER DISTRICT BOUNDARIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	0	96
SOILS - MEAN PERMEABILITY	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	54	1	55
SOILS - POTENTIAL RUNOFF	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	43	1	44
SOILS LITE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	592	0	592
SSURGO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1991	0	1991
STATSGO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	0	70
STREAM EVALUATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	494	0	494

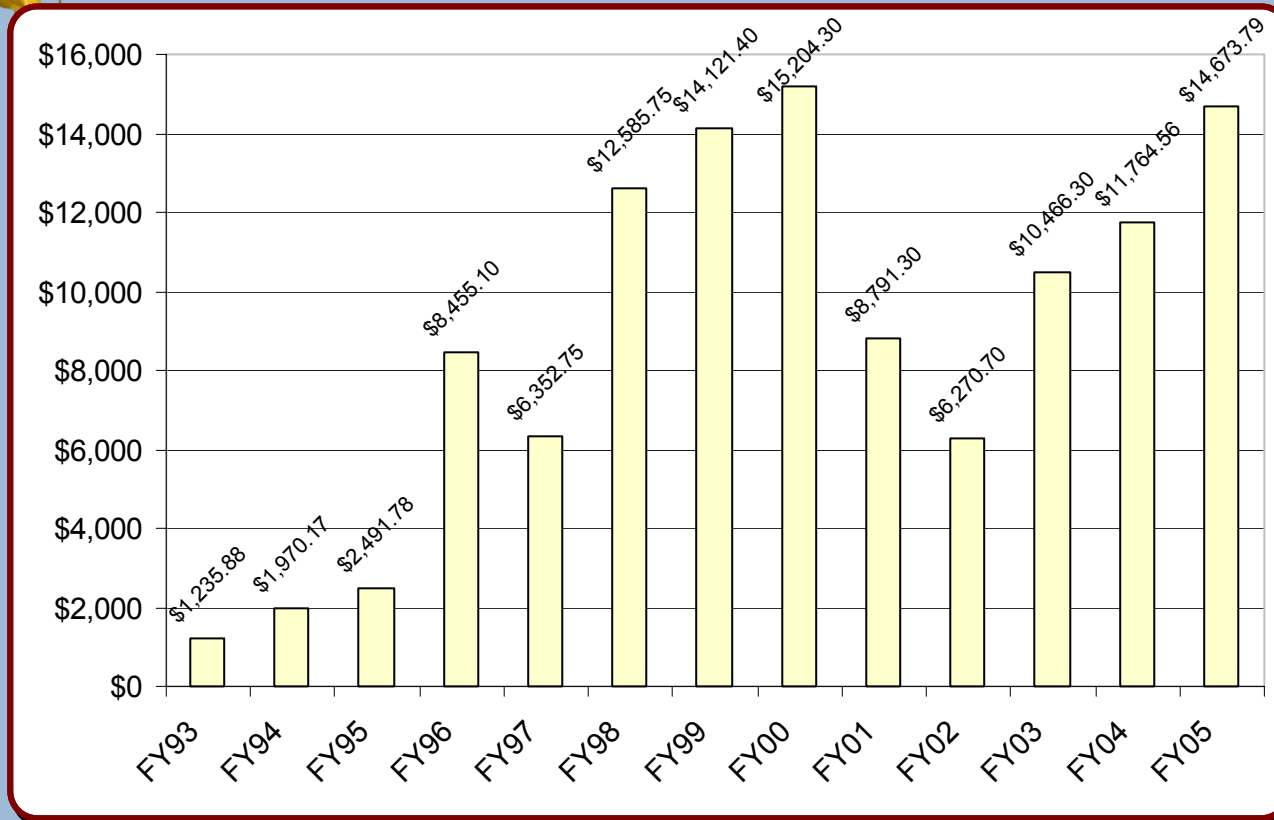
SURFACE INFORMATION MANAGEMENT (SWIMS)		WATERS SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	760	0	760
THREATENED & ENDANGERED SPECIES OCCURRENCES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152	0	152
TIGER 1990		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9388	0	9388
TIGER 2000		0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	3095	1	3098
U.S. EPA REACH FILE VERSION 1.0		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	35	1	36
USGS 100K QUADRANGLE BOUNDARY		0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	18	2	20	
USGS 24K QUADRANGLE BOUNDARY		0	0	0	0	0	0	2	2	0	0	0	0	6	6	0	0	3	3	69	11	80	
USGS 250K QUADRANGLE BOUNDARY		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	9	
WATER INFORMATION MANAGEMENT & ANALYSIS SYSTEM (WIMAS) V. 4.0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	448	0	448
WATERSHED DISTRICT		0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	129	1	130
TOTAL		33	22471	3	268	14	461	37	1487	60	18186	2	72	141	10895	7	282	21	14490	209147	325	277847	



State of Kansas Data Access & Support Center

Income: FY93 - FY05

Fiscal Year 2005 Annual Report



KANSAS GEOSPATIAL COMMUNITY COMMONS: WWW.KANSASGIS.ORG





State of Kansas Data Access & Support Center

Description of Secondary Services

Note: Provided as resources are available

1. Provide GIS products and services other than those related to the GIS Core Database (e.g. maps and technical support for the use or application of the data) to all organizations on a fee-for-service basis;
2. Provide professional development opportunities for DASC staff through attendance at various meetings, conferences and workshops related to GIS technology and DASC services;
3. Accept and make available other GIS and thematic data layers or metadata documentation that meet minimum standards established by the TAC and that have been approved for acceptance by the Board. Encourage database requestors to share end products derived from the core database;
4. Promote GIS technology and use of the Kansas Geodatabase;
5. Improve various databases acquired by the Board to produce a more usable GIS product. Convert and transform these databases as directed by the TAC;
NOTE: Any fees derived from DASC activities shall be accounted for separately and shall be applied to the DASC operation as specified by the Board.
6. Seek out additional funding sources to extend DASC's mission and services.





State of Kansas Data Access & Support Center

Coordination & Promotion Activities

The following table represents the schedule of events (i.e. conferences, workshops, training courses, and symposiums) that DASC participated in during FY05.

Date	Event	Location	Activity
July 21, 2004	Ag in the Classroom meeting	Manhattan, KS	GIS presentation
August 9 - 13, 2004	ESRI User Conference	San Diego, CA	Attended conference
August 30, 2004	Kansas Energy Council (KEC) meeting	Topeka, KS	Web GIS presentation
September 14, 2004	Information Technology Advisory Board (ITAB) meeting	Topeka, KS	Web GIS presentation
September 15, 2004	American Society for Photogrammetry & Remote Sensing	Kansas City, MO	National Map Presentation
September 27-28, 2005	KAM Conference	Manhattan, KS	KGCC Presentation/Display booth
November 17, 2005	GIS Day	FHSU, Fort Hays, KS	DASC Presentation
November 21-22, 2005	Kansas Association of Counties (KAC)	Overland Park, KS	Display booth
November 30 - December 2, 2005	MAGIC/USGS National Map Workshop	Rolla, MO	Kansas <i>National Map</i> presentation
November 30 - December 2, 2005	MAGIC/USGS National Map Workshop	Rolla, MO	Kansas Backup Server presentation
November 30 - December 2, 2005	MAGIC/USGS National Map Workshop	Rolla, MO	WMS Best Practices presentation
January 13, 2005	Kansas Society for Land Surveyors (KSLS) Conference	Salina, KS	KGCC Presentation
January 18, 2005	Kansas Alliance for Wetlands & Streams (KAWS)	Lawrence, KS	Web GIS presentation
March 15, 2005	Technology Information Exchange (TIX) meeting	Lawrence, KS	KGCC presentation
March 16, 2005	Technology Information Exchange (TIX) meeting	Hays, KS	KGCC presentation
March 22, 2005	Technology Information Exchange (TIX) meeting	Wichita, KS	KGCC presentation
March 23, 2005	Technology Information Exchange (TIX) meeting	Garden City, KS	KGCC presentation
April 21, 2005	MAGIC Remote Sensing Workshop	Lawrence, KS	KGCC presentation
May 19, 2005	Infinetec User Conference	Topeka, KS	KGCC presentation
May 24, 2005	Kansas Alliance for Wetlands & Streams (KAWS)	Fort Scott, KS	Web GIS presentation

Fiscal Year 2005 Annual Report



KANSAS GEOSPATIAL COMMUNITY COMMONS: WWW.KANSASGIS.ORG



State of Kansas Data Access & Support Center

Coordination & Promotion Activities

DASC staff members also served on the following committees:

- Kansas GIS Policy Board's Technical Advisory Committee (TAC);
- MidAmerica GIS Consortium (MAGIC) – Symposium Planning Committee;
- Kansas Association of Mappers (KAM) – Board of Directors;
- Kansas Association of Mappers (KAM) – Annual Conference Planning Committee;

DASC also hosted and maintained the web sites and email list servers for KAM and MAGIC. DASC's involvement in these activities has helped to build and maintain solid working relationships with GIS and IT professionals within the Kansas GIS community and the MAGIC region.





State of Kansas Data Access & Support Center

Additional Initiatives: Web Services

During FY05, DASC continued to promote its web services initiative. The goal of this initiative is to provide cost-effective geospatial web services to state and local government. Application development and hosting services are provided on a fee-for service basis. The fees charged for these services are used to cover personnel expenses and to support hardware and software infrastructure. This initiative has been very effective in promoting the use of geospatial technologies and has resulted in the development of new databases. Spatial databases and GIS applications have traditionally been accessible to a relatively small group of technical users. Web-based GIS applications have allowed for spatial data and GIS technology to be distributed to a much wider and more diverse audience.

Applications hosted during FY05:

- Statewide Comprehensive Outdoor Recreation Plan (SCORP) - Kansas Department of Wildlife & Parks (KDWP);
- Archeological Spatial Data Server - Kansas State Historical Society (KSHS);
- Find My Elected Officials - Kansas Legislative Research Division (KLRD);
- Equus Beds Information Resource - Kansas Department of Health & Environment (KDHE);
- Kansas Green Report - Kansas Applied Remote Sensing (KARS) Program;
- Kansas Registered Offenders - Kansas Bureau of Investigation (KBI);
- Douglas County Property Valuation Viewer – Douglas County, KS;
- City of Lawrence Map Viewer – City of Lawrence, KS;
- Shawnee County Public Access GIS Viewer – Shawnee County, Kansas;
- Watershed Project Management System - Kansas Water Office (KWO);
- NEKES Map Viewer - Northeast Kansas Environmental Services;
- Kansas ImageViewer, Kansas Landcover, Kansas Aquifers, and Kansas Basemap – general purpose data viewing applications developed and hosted by DASC.





State of Kansas Data Access & Support Center

Additional Initiatives: Web Services

Applications under development during FY05:

- Water Use Filing Reporting System – Kansas Department of Agriculture/Division of Water Resources (KDA/DWR);
- Watershed Project Management System Enhancements - Kansas Water Office (KWO);
- Historic Property Inventory - Kansas State Historical Society (KSHS);
- Cost Share Management System Map Viewer - State Conservation Commission (SCC);
- State Asset Map Viewer - Budget Efficiency Savings Team (BEST);
- Pharmfinder, Kansas Department of Health & Environment (KDHE);
- Geolocator - Information Network of Kansas (INK) Board of Directors;
- MapMaker - Information Network of Kansas (INK) Board of Directors;
- MapServer - Information Network of Kansas (INK) Board of Directors;
- ParkLocator - Information Network of Kansas (INK) Board of Directors;
- State Asset Map Viewer, Budget Efficiency Savings Team (BEST).

Applications scheduled for development or enhancement during FY06:

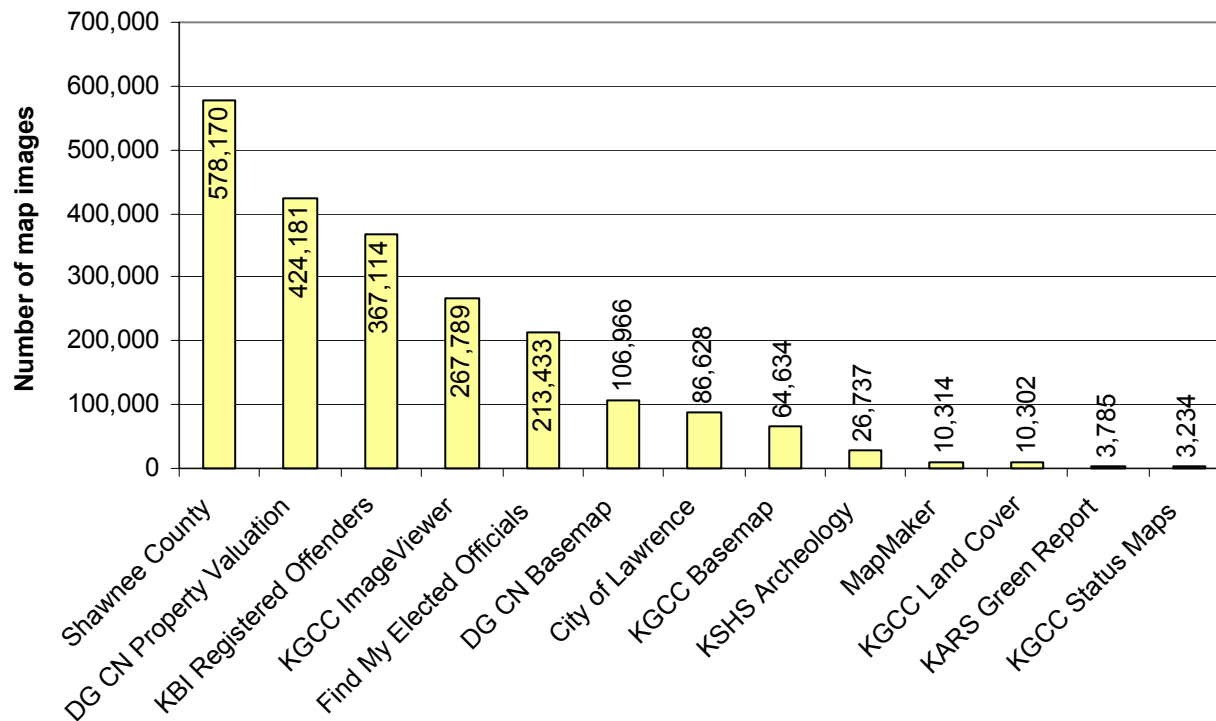
- Kansas Administrative Boundaries Database & Map Viewer, Kansas Division of Emergency Management (KDEM);
- KAWS Map Viewer – Kansas Alliance for Wetlands & Streams;
- Geolocator - Information Network of Kansas (INK) Board of Directors;
- MapServer - Information Network of Kansas (INK) Board of Directors;
- ParkLocator - Information Network of Kansas (INK) Board of Directors;
- CommunityRx Network – Division of Health Policy & Finance;
- Douglas County Property Valuation Viewer Enhancements – Douglas County, KS;
- Water Use Filing Reporting System – Kansas Department of Agriculture/Division of Water Resources (KDA/DWR).





State of Kansas Data Access & Support Center

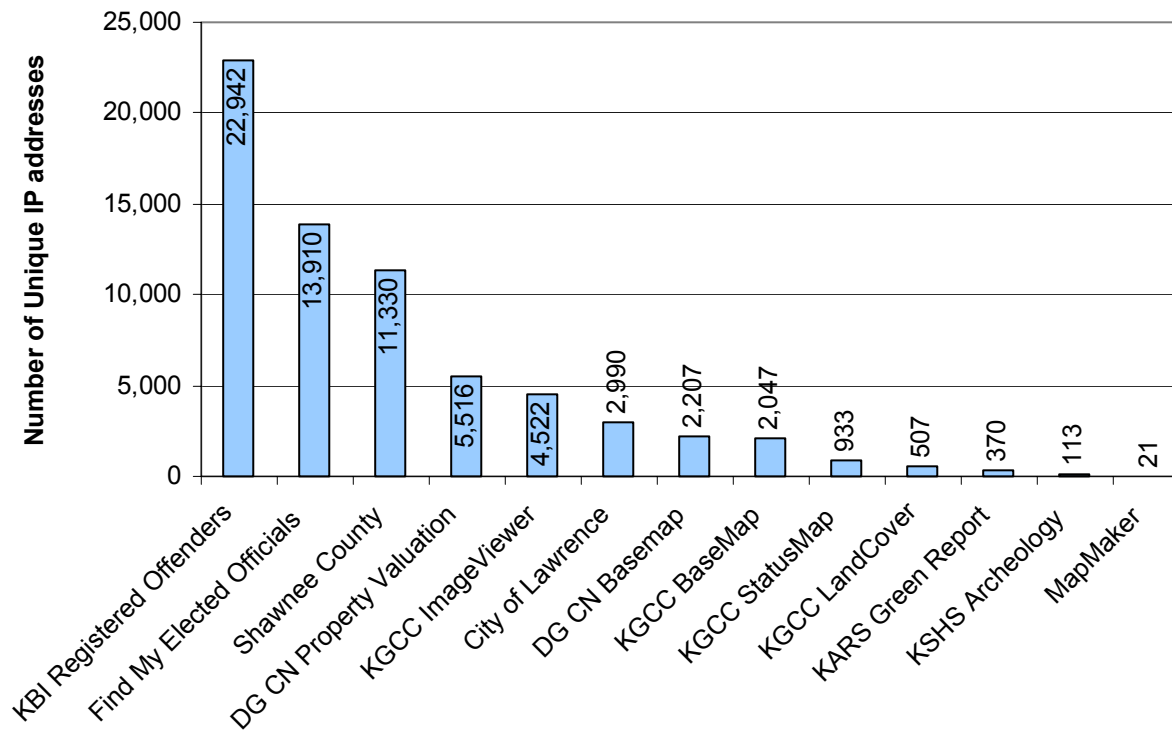
Number of Map Server Images – FY05





State of Kansas Data Access & Support Center

Number of Distinct IP Addresses – FY05





State of Kansas Data Access & Support Center

Future: Information Discovery & Distribution

The KGCC web site provides the framework for the collection, maintenance, and distribution of the inventory for the Kansas geospatial enterprise. This inventory is comprised of people, programs, data, documents, applications, and services. As this inventory develops, DASC will focus on improving the usability of the portal. In particular, DASC plans to enhance the *Kansas Geodatabase Catalog* portion of the portal to include support for multiple GIS file formats, access to a collection of web-based map services in multiple formats, and an interactive data preview function for each geodatabase layer. Using this approach, DASC will act as a “Geographic Translator” and “speak” to all types of GIS clients – ESRI, Intergraph, Geographix, MapInfo, Autocad, and Google Earth, and web-based protocols including ESRI image map services, ESRI feature map services, OpenGIS Web Map Service (WMS), and OpenGIS Web Feature Service (WFS). DASC will work with the TAC Data Committees to identify primary data layers for each data theme. This will reduce the number of duplicate data layers listed in the *Geodatabase Catalog* and ultimately make it easier to use. DASC will also complete the installation of the backup system at AGIO in Little Rock, Arkansas. Once operational, DASC plans to make the backup system available to other GIS data clearinghouses in the MAGIC region.





State of Kansas Data Access & Support Center

Future: Geospatial Services

DASC will continue to provide cost-effective geospatial services to the Kansas GIS community. Through enhancements to the KGCC web site, DASC will make it easier to access and use the *Kansas Geodatabase*. Drawing upon the Kansas Geospatial Inventory, DASC will be able to provide more information about GIS activities in Kansas – not just those limited to database development. DASC will also continue to provide cartographic development, database development, and web-based application development and hosting services on a fee-for-service basis. Regarding database development activities, DASC will complete work on a new Public Water Supply (PWS) database for the Kansas Water Office (KWO) and the Kansas Rural Water Authority (KRWA), continue development of 1/3 Arc-Second Digital Elevation Model (DEM) for selected areas of the state, and collaborate on a pilot project to develop an administrative boundaries database. Additionally, several web development projects are scheduled for completion in FY06 including GeoLocator, MapMaker, MapServer, and ParkLocator, as well as enhancements to many existing applications.





State of Kansas Data Access & Support Center

Future: Coordination & Promotion

DASC will continue to promote the visions and concepts of the Kansas GIS Initiative, follow the leadership of the Kansas GIS Policy Board, and promote its services. DASC staff will continue to serve on the TAC, KAM, and MAGIC committees. DASC will also focus on the development and facilitation of the TAC data planning committees. The purpose of establishing these committees is to allocate more time and the involvement of more subject matter experts to database-specific issues. Initially, the TAC data committees will perform a gap analysis for the various database themes including data availability (not only at DASC, but from all sources – federal, state, local, and the private sector), database status and condition, and user database needs. The long-term goal of the database committees is to develop a “database plan” that helps to guide future development and maintenance activities. Additionally, DASC will participate in the planning and implementation of a series of rural GIS outreach workshops as directed by the Kansas GIS Policy Board.



Date	Database Name	Organization	Description	Contents
7/2/2004	2004 KSID Landsat TM-ETM; ASTER; 01-03 MODIS	KARS	5 DVDs containing triplicates of TM and ETM+ satellite scenes over Kansas from 2003 in UTM projection, NAD83 datum. 10 CDs containing ASTER and MODIS products for most Kansas counties.	<p>DVDs contain county TM/ETM+ scenes in .tif format - products include false-color composite, fuse, mult, NDVI, panchro, and thermal, for three dates. Most dates for each county have all six image types. □</p> <p>□</p> <p>MODIS images are projected to Lambert Conformal Conic - each image is clipped to the Kansas boundary. Images are raw and scaled NDVIs, 2001-03.□</p> <p>□</p> <p>ASTER images are false-color composites tiled by multi-county blocks. Projection is UTM, NAD83.</p>
7/6/2004	Geology - surficial 24K	KGS - Automated Cartography	County geology data for Bourbon, Labette, Ness, Pottawatomie, and Wilson counties. All but the Bourbon County data are redeliveries of datasets delivered earlier in 2004 to correct minor deficiencies. The data delivery consisted of digital transfers of ArcView shapefiles. A polygon shapefile of surficial geology and a line shapefile of geologic contacts were delivered for each county. Marker bed shapefiles were also delivered for Bourbon, Labette, and Wilson counties, as were faults shapefiles for Bourbon, Labette, and Pottawatomie. ArcView legend (.avl) files were also delivered for each surficial geology shapefile. XML metadata files generated in ArcGIS were also provided for each shapefile	Above-mentioned shapefiles, legend files, and XML files for each county.

Date	Database Name	Organization	Description	Contents
7/6/2004	Kansas TVD and TVH	USGS	<p>(From USGS) □</p> <p>TVCs are a by-product of DEM production. Contour vectors are needed to produce Level-2 DEMs. To make Level-2 DEMs, enough contour line vectors must be 'tagged' (attributed) with the appropriate contour elevation. Not all contours need to be tagged to produce an acceptable - it is probable that not all contours on a quad map are attributed vectors in a TVC file. Some TVCs contain only line segments tagged with an elevation; others may contain both tagged lines and untagged line segments; some TVCs have attributed and unattributed lines; some have only attributed lines. □</p> <p>□</p> <p>Although TVCs and standard USGS DLGs share a similar format, the standards, rules, and topological structuring associated with standard USGS DLGs DO NOT APPLY to TVCs. □</p> <p>□</p> <p>Headers may not be fully populated, and may not be correct if populated. Most TVCs are NAD27. All are in UTM coordinates. A TVC may have a footprint covering a NAD27 quad area, but have NAD83 values. There is no common naming convention for TVCs.</p>	<p>126 gzipped TVC files for 24K DOQQ areas throughout Kansas; □</p> <p>15 gzipped TVH (tagged vector hydrography) files for similar areas; □</p> <p>README file for TVC data.</p>

Date	Database Name	Organization	Description	Contents
7/6/2004	Geology - surficial 24K	KGS - Automated Cartography	<p>Surficial geology, geologic contacts, marker beds, and faults shapefiles for Bourbon County. XML metadata files are also provided - there appear to be two for each shapefile, one with the county abbreviation in the filename, the other without. □</p> <p>□</p> <p>Also redelivery of recent data for Labette, Ness, Pottawatomie, and Wilson counties. These counties now all have metadata XML files, and some shapefiles have minor data changes. It was deemed easier to redeliver all than to attempt to redeliver individual files.</p>	<p>Bourbon - shapefiles for the above-mentioned features and XML files for the shapefiles. □</p> <p>□</p> <p>Labette, Ness, Pottawatomie, and Wilson - same as April-June deliveries except for additional metadata files and some minor data changes.</p>
7/7/2004	Geology - surficial 24K	KGS - Automated Cartography	<p>County geology data for Labette County. This is a redelivery of the 7/6/04 Labette County data, to correct minor deficiencies. The data delivery consisted of digital transfers of ArcView shapefiles. A polygon shapefile of surficial geology and a line shapefile of geologic contacts were delivered, as well as marker bed and fault shapefiles. An ArcView legend (.avl) file was also delivered for the surficial geology shapefile. XML metadata files generated in ArcGIS were also provided for each shapefile.</p>	<p>Shapefiles for above-mentioned features, XML files, .avl legend files for surficial geology shapefiles.</p>
7/7/2004	2004 KSID	KARS	<p>5 DVDs and 10 CDs - DVDs contain several output products (e.g., NDVI, panchromatic) of three dates of Landsat TM & ETM+ scenes, for all Kansas counties. CDs contain 2004 MODIS (NDVI) and ASTER (fcc) imagery.</p>	<p>Set of county products derived from TM & ETM+; □</p> <p>Set of products from ASTER (fcc); □</p> <p>Set of products from MODIS (NDVI); □</p> <p>Copy of metadata on each CD or DVD, though metadata for each set is identical; □</p> <p>Copy of any tables that accompany metadata are on the appropriate CD or DVD - these tables are also identical on each set.</p>

Date	Database Name	Organization	Description	Contents
7/8/2004	2002 DOQQ	Sanborn	13 CDs containing 91 replacement images for lots 2, 3, 9, 27, 30, 31, and 37; 3 CD labels to replace earlier ones with errors. Some images replace those with visual problems; others replace images with header errors.	<p>Lot 2 CD 1/1 Files 2 - Humboldt SW(2650)SE; Salem SE(2652); □</p> <p>Lot 3 CD 1/2 Files 10 ¿ Wathena(2458)NE,SE,SW; Halls(2358)NE; Leavenworth(2058)SW; Highland NW(2554)SE,SW; White Cloud(2555)SE,SW; Troy(2457)SE; CD 2/2 Files 10 ¿ Troy(2457)SW; Atchison NE(2357)NE,NW,SW; Nortonville (2155)SE; Oak Mills(2157)NW,SE,SW; Rulo(2654)SW; Big Lake(2655)SW;□ □</p> <p>Lot 9 CD 1/1 Files 1 - Peoria(0160)NW;□ □</p> <p>Lot 27 CD 1/1 Files 6 - Covert(2027)SW; Stockton SW(2022)SE; Stockton SE(2023)SW; Zurich(1922)NE,SE; Plainville(1923)NW;□ □</p> <p>Lot 30 CD 1/3 Files 8 ¿ Ashland(0319)NE,NW,SE,SW; Sitka SW(0220) NE,NW,SE,SW; CD 2/3 Files 6 ¿ Protection SW(0222)NE,NW; Buttermilk(0223)NE,NW; Nescatunga Creek South(0224)SE,SW; CD 3/3 Files 6 ¿ Rosston NE(0119)NE,NW; Buffalo NW(0120)NE; Selman NW(0122)NW; Fancy Canyon(0225)SE,SW;□ □</p>
8/16/2004	Barton County street centerlines	Barton County, Kansas	Shapefiles and CAD (.dwg) file for county street centerlines, incorporated areas (polygons), and city points.	Three shapefiles and associated files, one CAD (.dwg file), paper copy of metadata with contact information.
8/16/2004	Barton County street centerlines	Barton County Appraiser	Shapefiles and associated files for Barton County street centerlines, city limit polygons, and city points. A street centerline drawing (.dwg) file is also included.	Three shapefiles and associated files, as well as the street centerline drawing file. A hard-copy file of minimal metadata was also provided.

Date	Database Name	Organization	Description	Contents
9/3/2004	2004 KSID Landsat TM-ETM	KARS	New Ellis County summer data products (false-color composite, fuse, mult., NDVI, and thermal) from July, 2002, and the 2002-03 KSID final report. These image files are a replacement for the July, 2003 products delivered for Ellis County as part of the KSID 2004 dataset. The previous Ellis County summer scenes contained errors.	Data product files in .tif format, PDF version of final report.
9/15/2004	Ogallala Bedrock Data Enhancement	KGS-Geohydrology	Line-based GIS database depicting contour lines of the bedrock elevations of the Ogallala Aquifer in Kansas and a point-based GIS database depicting locations of groundwater wells where bedrock elevation was identified and used to create the contour lines. Data provided in both ESRI shapefile and geodatabase formats.	Geodatabase file, bedrock point and line shapefiles, and associated metadata and README files.
10/8/2004	2003 NAIP	USDA-FSA	Images and accompanying text files, one per county, for all 105 counties	105 CDs, each with a compressed 2003 county mosaic (note: in invoice, Morton and Scott counties were listed as 2004) in SID format, accompanying .SDW file, and text file with image header information.
12/21/2004	Ogallala Bedrock Data Enhancement	KGS - Geohydrology	UPDATED database, due to changes in mapping of certain bedrock surface areas. Line-based GIS database depicting contour lines of the bedrock elevations of the Ogallala Aquifer in Kansas and a point-based GIS database depicting locations of groundwater wells where bedrock elevation was identified and used to create the contour lines. Data provided in both ESRI shapefile and geodatabase formats.	Same as original delivery, but updated: geodatabase file, bedrock point and line shapefiles, and associated metadata and README files.

Date	Database Name	Organization	Description	Contents
5/19/2005	Geology - surficial 24K	KGS - Automated Cartography	County geology data for Gray, Hamilton, Kearny, Osborne, and Wabaunsee counties. The data delivery consisted of one personal geodatabase, "KITO_2005.mdb," with feature datasets and feature classes within them for each county. Geology and contacts classes were delivered for each county; the Hamilton, Kearny, and Wabaunsee datasets also contained faults classes. The Wabaunsee dataset also included a glacial boulders class. No other information was provided.	One personal geodatabase (KITO_2005.mdb) containing the above-mentioned feature datasets and feature classes.

Appendix B: Data Request Invoice Summary

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Date	Organization	Labor	CPU	Media	S&H	Total
7/1/2004	Farmers Union Cooperative Business Association	\$0.00	\$0.00	\$6.00	\$3.00	\$9.66
7/1/2004	Farmers Union Cooperative Business Association	\$0.00	\$0.00	\$15.00	\$4.00	\$20.39
7/8/2004	Wheatland Electric Cooperative	\$0.00	\$0.00	\$150.00	\$15.00	\$177.05
7/8/2004	Westar Energy	\$0.00	\$0.00	\$225.00	\$0.00	\$225.00
7/9/2004	HNTB Corporation	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
7/12/2004	Exponent, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
7/13/2004	Labette County, Kansas	\$0.00	\$0.00	\$37.50	\$5.00	\$42.50
7/13/2004	Pottawatomie County, Kansas	\$0.00	\$0.00	\$52.50	\$5.25	\$57.75
7/14/2004	Ford County, Kansas	\$0.00	\$0.00	\$52.50	\$5.25	\$57.75
7/14/2004	KLA Environmental Services, Inc.	\$0.00	\$0.00	\$180.00	\$18.00	\$212.45
7/14/2004	Western Air Maps	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
7/14/2004	Self-Employed	\$105.00	\$0.00	\$15.00	\$12.00	\$141.64
7/14/2004	Self-Employed	\$105.00	\$0.00	\$15.00	\$12.00	\$132.00
7/19/2004	Precision Geomatics	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
7/21/2004	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
7/21/2004	Bureau Of Indian Affairs	\$0.00	\$0.00	\$30.00	\$5.00	\$35.00
7/21/2004	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
7/21/2004	BG Consultants, Inc.	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
7/29/2004	GDM	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
7/29/2004	GDM	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
7/29/2004	Titan Corporation	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
7/29/2004	Nova Blue, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
7/29/2004	GDM	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
7/30/2004	Precision Geomatics	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
7/30/2004	Schwab Eaton	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
8/4/2004	MKEC Engineering Consultants Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
8/5/2004	R & S Digital	\$0.00	\$0.00	\$37.50	\$5.00	\$45.60
8/5/2004	U.S. Department of the Army, Directorate of Environment and Safety	\$0.00	\$0.00	\$135.00	\$13.50	\$148.50
8/5/2004	Westar Energy	\$0.00	\$0.00	\$330.00	\$33.00	\$389.50
8/5/2004	Precision Geomatics	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56
8/5/2004	EBH & Associates	\$35.00	\$0.00	\$240.00	\$27.50	\$324.58
8/5/2004	Sherwood Construction	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
8/5/2004	Larkin Group	\$0.00	\$0.00	\$90.00	\$9.00	\$106.23
8/5/2004	Sac And Fox Nation Environmental Department	\$0.00	\$0.00	\$15.00	\$5.00	\$20.00
8/5/2004	Larkin Group	\$0.00	\$0.00	\$90.00	\$9.00	\$99.00
8/5/2004	KLA Environmental Services, Inc.	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
8/6/2004	Northern Natural Gas Company	\$52.50	\$0.00	\$120.00	\$17.25	\$189.75
8/19/2004	Shafer, Kline, And Warren, Inc.	\$35.00	\$0.00	\$30.00	\$0.00	\$65.00
8/20/2004	Kansas State University	\$0.00	\$0.00	\$195.00	\$19.50	\$214.50
8/23/2004	Kansas State University - Biology & Ag Engineering	\$0.00	\$0.00	\$30.00	\$5.00	\$35.00
8/23/2004	Kansas Department of Wildlife and Parks	\$0.00	\$0.00	\$15.00	\$4.00	\$19.00
8/24/2004	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78

Date	Organization	Labor	CPU	Media	S&H	Total
8/25/2004	Self-Employed	\$35.00	\$0.00	\$45.00	\$8.00	\$88.00
8/25/2004	Schwab Eaton	\$70.00	\$0.00	\$45.00	\$11.50	\$135.73
8/25/2004	Self-Employed	\$35.00	\$0.00	\$45.00	\$8.00	\$94.42
8/25/2004	Luke Kimble Mapping	\$17.50	\$0.00	\$67.50	\$8.50	\$100.33
8/26/2004	Anderson County, Kansas	\$0.00	\$0.00	\$30.00	\$5.00	\$35.00
8/26/2004	Westar Energy	\$0.00	\$0.00	\$255.00	\$25.50	\$300.98
8/27/2004	HNTB Corporation	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
8/30/2004	Professional Engineering Consultants, P.A.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
8/30/2004	Wheatland Electric Cooperative	\$0.00	\$0.00	\$270.00	\$27.00	\$318.68
9/1/2004	Clark County, Kansas	\$0.00	\$0.00	\$52.50	\$5.25	\$57.75
9/1/2004	Urs Corporation	\$35.00	\$0.00	\$30.00	\$6.50	\$76.72
9/1/2004	Urs Corporation	\$0.00	\$0.00	\$90.00	\$9.00	\$106.23
9/2/2004	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
9/2/2004	Precision Geomatics	\$0.00	\$0.00	\$360.00	\$36.00	\$424.91
9/3/2004	City Of Cheney, Kansas	\$0.00	\$0.00	\$60.00	\$6.00	\$66.00
9/8/2004	Woolsey Operating Company, Llc	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56
9/9/2004	Emporia State University	\$0.00	\$0.00	\$82.50	\$8.25	\$90.75
9/14/2004	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
9/15/2004	GPS,LLC	\$35.00	\$0.00	\$0.00	\$0.00	\$35.00
9/16/2004	Kramer Engineering, P.A.	\$0.00	\$0.00	\$60.00	\$6.00	\$66.00
9/16/2004	Kramer Engineering, P.A.	\$0.00	\$0.00	\$60.00	\$6.00	\$70.82
9/16/2004	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
9/16/2004	R & S Digital	\$0.00	\$0.00	\$45.00	\$6.00	\$51.00
9/20/2004	Sunflower Electric Power Corporation	\$0.00	\$0.00	\$135.00	\$13.50	\$159.34
9/20/2004	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
9/21/2004	Bartlett and West Engineers	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
9/21/2004	Luke Kimble Mapping	\$17.50	\$0.00	\$15.00	\$5.00	\$40.24
9/22/2004	Bartlett and West Engineers	\$0.00	\$0.00	\$60.00	\$6.00	\$70.82
9/22/2004	Lane-Scott Electric Coop Incorporated	\$0.00	\$0.00	\$120.00	\$12.00	\$141.64
9/23/2004	EBH & Associates	\$0.00	\$0.00	\$60.00	\$6.00	\$70.82
10/4/2004	Kansas Water Office	\$0.00	\$0.00	\$15.00	\$4.00	\$19.00
10/5/2004	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
10/6/2004	Prairieland Electric COOP, Inc.	\$35.00	\$0.00	\$240.00	\$27.50	\$324.58
10/6/2004	Bartlett and West Engineers	\$35.00	\$0.00	\$30.00	\$6.50	\$76.72
10/8/2004	Westar Energy	\$0.00	\$0.00	\$825.00	\$82.50	\$973.75
10/12/2004	Bartlett and West Engineers	\$0.00	\$0.00	\$90.00	\$9.00	\$106.23
10/13/2004	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
10/13/2004	Spatial Data Research	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56
10/14/2004	Fishing Hot Spots	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
10/14/2004	Fishing Hot Spots	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
10/14/2004	Koch Pipeline Company, Inc.	\$0.00	\$0.00	\$660.00	\$66.00	\$779.00
10/18/2004	Sovereign Energy	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50

Date	Organization	Labor	CPU	Media	S&H	Total
10/18/2004	Sovereign Energy	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
10/19/2004	Sunflower Electric Power Corporation	\$0.00	\$0.00	\$60.00	\$6.00	\$70.82
10/20/2004	Mo-Kan Regional Council	\$0.00	\$0.00	\$30.00	\$5.00	\$35.00
10/22/2004	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
10/22/2004	Exponent, Inc.	\$35.00	\$0.00	\$0.00	\$0.00	\$35.00
10/25/2004	BEREXCO Inc.	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
10/25/2004	Burns and McDonnell Engineering	\$35.00	\$0.00	\$0.00	\$0.00	\$35.00
10/26/2004	R & S Digital	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56
10/26/2004	U.S. Army Corps of Engineers	\$0.00	\$0.00	\$7.50	\$3.00	\$10.50
10/28/2004	The Nature Conservancy - Kansas Chapter	\$0.00	\$0.00	\$30.00	\$0.00	\$30.00
10/28/2004	Planet Gas	\$70.00	\$0.00	\$0.00	\$0.00	\$70.00
11/1/2004	Urs Corporation	\$70.00	\$0.00	\$60.00	\$13.00	\$153.44
11/2/2004	Wilson & Company, Inc., Engineers & Architects	\$17.50	\$0.00	\$30.00	\$6.00	\$57.41
11/2/2004	AMEC	\$0.00	\$0.00	\$15.00	\$4.00	\$19.00
11/3/2004	Self-Employed	\$17.50	\$0.00	\$90.00	\$10.75	\$118.25
11/4/2004	Westar Energy	\$0.00	\$0.00	\$315.00	\$31.50	\$371.79
11/4/2004	Wichita County, Kansas	\$0.00	\$0.00	\$45.00	\$6.00	\$51.00
11/4/2004	KLA Environmental Services, Inc.	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
11/8/2004	Self-Employed	\$0.00	\$0.00	\$90.00	\$9.00	\$106.23
11/8/2004	Self-Employed	\$0.00	\$0.00	\$90.00	\$9.00	\$99.00
11/8/2004	Hertz Farm Management	\$0.00	\$0.00	\$15.00	\$4.00	\$19.00
11/9/2004	Allenbrand-Drews and Associates, Inc.	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56
11/9/2004	Sherwood Construction	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
11/9/2004	Olsson Associates	\$35.00	\$0.00	\$0.00	\$0.00	\$35.00
11/10/2004	TCL Technologies	\$140.00	\$127.54	\$15.00	\$28.25	\$333.48
11/10/2004	Unit Petroleum Co	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
11/10/2004	Unit Petroleum Co	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
11/10/2004	Bartlett and West Engineers	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
11/10/2004	Fort Hays State University	\$0.00	\$0.00	\$45.00	\$6.00	\$51.00
11/12/2004	Burns and McDonnell Engineering	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
11/17/2004	MKEC Engineering Consultants Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
11/18/2004	R & S Digital	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56
11/18/2004	HNTB Corporation	\$0.00	\$0.00	\$30.00	\$5.00	\$35.00
11/29/2004	KLA Environmental Services, Inc.	\$52.50	\$0.00	\$0.00	\$0.00	\$56.33
12/6/2004	Shafer, Kline, And Warren, Inc.	\$8.75	\$0.00	\$15.00	\$5.00	\$28.75
12/7/2004	Burns and McDonnell Engineering	\$35.00	\$0.00	\$0.00	\$0.00	\$35.00
12/7/2004	Thompson-Lamer Consulting	\$0.00	\$0.00	\$15.00	\$0.00	\$15.00
12/7/2004	MKEC Engineering Consultants Inc.	\$52.50	\$0.00	\$0.00	\$0.00	\$56.33
12/7/2004	Burns and McDonnell Engineering	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
12/7/2004	Burns and McDonnell Engineering	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
12/8/2004	Self-Employed	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
12/13/2004	Peltier Corporation	\$8.75	\$0.00	\$0.00	\$0.00	\$8.75

Date	Organization	Labor	CPU	Media	S&H	Total
12/14/2004	Self-Employed	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
12/15/2004	Unit Petroleum Co	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
12/15/2004	Waldeck, Mattenzi, & Sloan	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
12/15/2004	ESRI	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
12/17/2004	Bartlett and West Engineers	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56
12/22/2004	Logan Petroleum	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
1/3/2005	Waldeck, Mattenzi, & Sloan	\$0.00	\$0.00	\$15.00	\$4.00	\$19.00
1/3/2005	Franklin County, Kansas	\$0.00	\$0.00	\$7.50	\$3.00	\$10.50
1/4/2005	BG Consultants, Inc.	\$52.50	\$0.00	\$0.00	\$0.00	\$56.33
1/6/2005	Thompson-Lamer Consulting	\$0.00	\$0.00	\$120.00	\$12.00	\$141.64
1/6/2005	Thompson-Lamer Consulting	\$0.00	\$0.00	\$120.00	\$12.00	\$132.00
1/6/2005	Frontier GIS	\$0.00	\$0.00	\$30.00	\$5.00	\$35.00
1/6/2005	Self-Employed	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
1/10/2005	EnergyQuest Resources LLC	\$52.50	\$225.00	\$30.00	\$30.75	\$338.25
1/18/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
1/18/2005	Kansas Wildlife Services	\$0.00	\$0.00	\$7.50	\$3.00	\$10.50
1/20/2005	Burns and McDonnell Engineering	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
1/20/2005	Burns and McDonnell Engineering	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
1/21/2005	Wilson & Company, Inc., Engineers & Architects	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
1/24/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
1/27/2005	Kansas Department of Health and Environment	\$0.00	\$0.00	\$15.00	\$4.00	\$19.00
1/28/2005	Self-Employed	\$0.00	\$0.00	\$15.00	\$4.00	\$19.00
2/1/2005	U.S. Army Corps of Engineers	\$0.00	\$0.00	\$1,185.00	\$118.50	\$1,303.50
2/1/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
2/7/2005	Westar Energy	\$0.00	\$0.00	\$300.00	\$30.00	\$354.09
2/7/2005	Bartlett and West Engineers	\$0.00	\$0.00	\$60.00	\$6.00	\$70.82
2/7/2005	Frontier Farm Credit	\$140.00	\$0.00	\$0.00	\$0.00	\$150.22
2/8/2005	KLA Environmental Services, Inc.	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
2/8/2005	Oxy USA Inc.	\$0.00	\$0.00	\$270.00	\$27.00	\$297.00
2/10/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
2/14/2005	Shannon & Wilson, Inc	\$35.00	\$0.00	\$0.00	\$0.00	\$37.56
2/14/2005	Shannon & Wilson, Inc	\$35.00	\$0.00	\$0.00	\$0.00	\$35.00
2/14/2005	Self-Employed	\$0.00	\$0.00	\$15.00	\$4.00	\$20.39
2/17/2005	Bartlett and West Engineers	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
2/17/2005	Bartlett and West Engineers	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
2/21/2005	Wilson & Company, Inc., Engineers & Architects	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
2/22/2005	Kansas Department of Health and Environment	\$0.00	\$0.00	\$1,635.00	\$163.50	\$1,798.50
2/25/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
2/28/2005	Frontier GIS	\$0.00	\$0.00	\$45.00	\$6.00	\$54.72
3/3/2005	Self-Employed	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
3/3/2005	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
3/3/2005	Bartlett and West Engineers	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56

Date	Organization	Labor	CPU	Media	S&H	Total
3/3/2005	Bartlett and West Engineers	\$0.00	\$0.00	\$30.00	\$5.00	\$35.00
3/3/2005	Self-Employed	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
3/3/2005	Approach Resources	\$0.00	\$0.00	\$15.00	\$4.00	\$19.00
3/8/2005	Bartlett and West Engineers	\$0.00	\$0.00	\$30.00	\$5.00	\$37.56
3/8/2005	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$17.50
3/8/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$18.78
3/10/2005	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
3/17/2005	Chesapeake Energy	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00
3/18/2005	Thompson-Lamer Consulting	\$0.00	\$0.00	\$7.50	\$3.00	\$0.00
3/23/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
3/23/2005	Republic County, Kansas	\$17.50	\$0.00	\$7.50	\$5.00	\$0.00
3/23/2005	Cloud County, Kansas	\$17.50	\$0.00	\$7.50	\$5.00	\$0.00
3/25/2005	Wilson & Company, Inc., Engineers & Architects	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
3/25/2005	Wilson & Company, Inc., Engineers & Architects	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
3/31/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
4/7/2005	Kastens Inc. Farms	\$0.00	\$0.00	\$15.00	\$0.00	\$0.00
4/7/2005	Wexford Resources Inc.	\$35.00	\$0.00	\$15.00	\$6.00	\$0.00
4/12/2005	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
4/14/2005	Westar Energy	\$0.00	\$0.00	\$150.00	\$15.00	\$0.00
4/22/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
4/25/2005	U.S. Fish and Wildlife Service-Quivira NWR	\$0.00	\$0.00	\$30.00	\$5.00	\$0.00
4/27/2005	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
4/27/2005	Self-Employed	\$17.50	\$0.00	\$15.00	\$5.00	\$0.00
4/29/2005	Burns and McDonnell Engineering	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00
5/3/2005	R & S Digital	\$0.00	\$0.00	\$30.00	\$5.00	\$0.00
5/3/2005	Wilson & Company, Inc., Engineers & Architects	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00
5/4/2005	Bartlett and West Engineers	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
5/9/2005	Kaw Valley Mapping	\$0.00	\$0.00	\$30.00	\$0.00	\$0.00
5/11/2005	Self-Employed	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
5/12/2005	Luke Kimble Mapping	\$17.50	\$0.00	\$120.00	\$13.75	\$0.00
5/16/2005	Kansas Applied Remote Sensing Program	\$0.00	\$0.00	\$150.00	\$0.00	\$0.00
5/17/2005	Schwab Eaton	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
5/17/2005	Westar Energy	\$0.00	\$0.00	\$90.00	\$9.00	\$0.00
5/26/2005	Self-Employed	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
5/26/2005	PBS&J	\$0.00	\$0.00	\$15.00	\$4.00	\$0.00
5/31/2005	Kansas Department of Health and Environment	\$70.00	\$0.00	\$15.00	\$8.50	\$0.00
6/1/2005	Schwab Eaton	\$8.75	\$0.00	\$0.00	\$0.00	\$0.00
6/1/2005	Schwab Eaton	\$35.00	\$0.00	\$30.00	\$6.50	\$0.00
6/15/2005	Douglas County, Kansas	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00
6/15/2005	KLA Environmental Services, Inc.	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00
6/22/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
6/23/2005	Bartlett and West Engineers	\$0.00	\$0.00	\$60.00	\$6.00	\$0.00

Appendix B: Data Request Invoice Summary

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Date	Organization	Labor	CPU	Media	S&H	Total
6/27/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
6/27/2005	Cambria Corporation	\$0.00	\$0.00	\$15.00	\$4.00	\$0.00
6/29/2005	Wilson & Company, Inc., Engineers & Architects	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00
6/30/2005	KLA Environmental Services, Inc.	\$17.50	\$0.00	\$0.00	\$0.00	\$0.00

Layer Name	Dataset Name	Description
Alluvial Aquifer	ALLUVIAL AQUIFER	Extent of the Kansas Alluvial Aquifer.
ASTER 2002-2003 Kansas Satellite Image Database (KSID)	KANSAS SATELLITE IMAGE DATABASE (KSID) 2002-2003	KSID 2002-2003 consists of ASTER imagery.
Census Block Groups - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Census Block Groups - 2000	TIGER 2000	TIGER 2000 US Census block groups
Census Blocks - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Census Blocks - 2000	TIGER 2000	TIGER 2000 US Census blocks
Census Tracts - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Census Tracts - 2000	TIGER 2000	TIGER 2000 US Census tracts
County Boundaries - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
County Boundaries - 2000	TIGER 2000	TIGER 2000 US Census county boundaries
County Seats - 2000	TIGER 2000	TIGER County seat polygons for Kansas.
Dakota Aquifer Base	DAKOTA AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Dakota Aquifer.
Dakota Aquifer Extent	DAKOTA AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Dakota Aquifer.
Dakota Aquifer Potentiometric Surface	DAKOTA AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Dakota Aquifer.
Dakota Aquifer Top Elevation	DAKOTA AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Dakota Aquifer.
Dakota Aquifer Total Dissolved Solids	DAKOTA AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Dakota Aquifer.
Department of Agriculture-Agricultural Commodities Assurance Program	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Agriculture-Agricultural Commodities Assurance Program locations, districts, or boundaries in Kansas
Department of Agriculture-Division of Food Safety-Dairy Inspection	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Agriculture-Division of Food Safety-Dairy Inspection locations, districts, or boundaries in Kansas
Department of Agriculture-Division of Food Safety-Meat and Poultry	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Agriculture-Division of Food Safety-Meat & Poultry locations, districts, or boundaries in Kansas
Department of Agriculture-Division of Inspections-Petroleum Measurement	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Agriculture-Division of Inspections-Petroleum Measurement locations, districts, or boundaries in Kansas
Department of Agriculture-Division of Inspections-Weights and Measures	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Agriculture-Division of Inspections-Weights and Measures locations, districts, or boundaries in Kansas
Department of Agriculture-Division of Water Resources	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Agriculture-Water Resources Division locations, districts, or boundaries in Kansas
Department of Agriculture-Grain Inspection Department- Agricultural Statistics	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Agriculture-Grain Inspection Department- Agricultural Statistics locations, districts, or boundaries in Kansas
Department of Commerce-Community Development Division	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Commerce-Community Development Division locations, districts, or boundaries in Kansas
Department of Commerce-Industrial Division	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Commerce-Industrial Division locations, districts, or boundaries in Kansas

Layer Name	Dataset Name	Description
Department of Health and Environment	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Health and Environment locations, districts, or boundaries in Kansas
Department of Human Resources-Job Centers	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Human Resources-Job Centers locations, districts, or boundaries in Kansas
Department of Revenue-Division of Collections	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Revenue-Division of Collections locations, districts, or boundaries in Kansas
Department of Social and Rehabilitation Services-Management Services	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Social & Rehabilitation Services-Management Services locations, districts, or boundaries in Kansas
Department of Transportation	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Transportation locations, districts, or boundaries in Kansas
Department of Wildlife and Parks	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Department of Wildlife & Parks locations, districts, or boundaries in Kansas
Designated Critical Habitat	DESIGNATED CRITICAL HABITAT	Designated critical habitat.
Detailed Soils 24K	DETAILED SOILS 24K	Detailed 24K soils. Soil survey polygons attributed SCS map symbol (MUSYM, MUID, STSYM). The original 24K Detailed Soils polygon coverages are currently being certified by NRCS Fort Worth. The 24K Detailed Soils polygon coverages will be replaced by the Certified SSURGO as they are delivered to DASC. See the SSURGO Status Map to determine if your area has been replaced by the Certified SSURGO data.
Digital Elevation Model (DEM) 100K	DIGITAL ELEVATION MODEL (DEM) 100K	1:100,000 Digital Elevation Model.
Digital Elevation Model (DEM) 24K	DIGITAL ELEVATION MODEL (DEM) 24K	7.5 min. Digital Elevation Model: 30 meter interval.
Digital Elevation Model (DEM) 250K	DIGITAL ELEVATION MODEL (DEM) 250K	One degree Digital Elevation Model: elevation recorded every 3 arc seconds.
Digital Raster Graphics (DRG) Lambert	DIGITAL RASTER GRAPHICS (DRG) LAMBERT	Digital Raster Graphics - Scanned USGS 24K, 100K, and 250K Topographic maps with collars clipped out and in the Lambert Conformal Conic coordinate system.
Digital Raster Graphics (DRG) UTM NAD 27	DIGITAL RASTER GRAPHICS (DRG) UTM NAD 27	Digital Raster Graphics - Scanned USGS 24K, 100K, and 250K Topographic maps with collar information and georeferenced to the UTM grid and NAD1927 datum.
Digital Raster Graphics (DRG) UTM NAD 27 Clipped	DIGITAL RASTER GRAPHICS (DRG) UTM NAD 27 CLIPPED	Digital Raster Graphics - Scanned USGS 24K, 100K, and 250K Topographic maps with collar information removed and georeferenced to the UTM grid and NAD1927 datum.
Digital Raster Graphics (DRG) UTM NAD 83 Clipped	DIGITAL RASTER GRAPHICS (DRG) UTM NAD 83 CLIPPED	Digital Raster Graphics - Scanned USGS 24K, 100K, and 250K Topographic maps with collar information removed and georeferenced to the UTM grid and NAD1983 datum.
Digital Raster Graphics (DRG) UTM NAD 83 County	DIGITAL RASTER GRAPHICS (DRG) UTM NAD 83 COUNTY	Digital Raster Graphics - Scanned USGS 24K Topographic maps with collar information removed and georeferenced to the UTM grid and NAD1983 datum and tiled by county.

Layer Name	Dataset Name	Description
DLG 100K Boundaries	DIGITAL LINE GRAPHS (DLG) 100K	Digital Line Graphs from USGS: 7 layers of topographic information.
DLG 100K Hydrography	DIGITAL LINE GRAPHS (DLG) 100K	Digital Line Graphs from USGS: 7 layers of topographic information.
DLG 100K Misc. Transportation	DIGITAL LINE GRAPHS (DLG) 100K	Digital Line Graphs from USGS: 7 layers of topographic information.
DLG 100K PLSS	DIGITAL LINE GRAPHS (DLG) 100K	Digital Line Graphs from USGS: 7 layers of topographic information.
DLG 100K Railroads	DIGITAL LINE GRAPHS (DLG) 100K	Digital Line Graphs from USGS: 7 layers of topographic information.
DLG 100K Transportation	DIGITAL LINE GRAPHS (DLG) 100K	Digital Line Graphs from USGS: 7 layers of topographic information.
DLG 24K Boundaries	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K Hydrology	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K Hypsography	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K Manmade Features	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K Non-vegetative features	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K Pipelines and Transmission Lines	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K PLSS	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K Survey Control & Markers	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K Transportation	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 24K Vegetative Surface Cover	DIGITAL LINE GRAPHS (DLG) 24K	Digital Cartographic/Geographic data from USGS: 7.5' quadrangles.
DLG 2MIL Cultural Features	DIGITAL LINE GRAPHS (DLG) 2MIL	Digital Cartographic/Geographic data from USGS of the entire United States.
DLG 2MIL Political Boundaries	DIGITAL LINE GRAPHS (DLG) 2MIL	Digital Cartographic/Geographic data from USGS of the entire United States.
DLG 2MIL Railroads	DIGITAL LINE GRAPHS (DLG) 2MIL	Digital Cartographic/Geographic data from USGS of the entire United States.
DLG 2MIL Roads and Trails	DIGITAL LINE GRAPHS (DLG) 2MIL	Digital Cartographic/Geographic data from USGS of the entire United States.
DLG 2MIL Streams	DIGITAL LINE GRAPHS (DLG) 2MIL	Digital Cartographic/Geographic data from USGS of the entire United States.
DLG 2MIL Water Bodies	DIGITAL LINE GRAPHS (DLG) 2MIL	Digital Cartographic/Geographic data from USGS of the entire United States.
EPAKS STORET Sites	ENVIRONMENTAL DATA SOURCES	Locations of sites that collect environmental data for Kansas.
FEMA Flood Insurance Studies Inventory	FEMA FLOOD INSURANCE STUDIES INVENTORY	Federal Emergency Management Agency's flood insurance studies for Kansas as of July 1, 1996.

Layer Name	Dataset Name	Description
FEMA Q3 Flood Data	FEMA Q3 FLOOD DATA	Federal Emergency Management Agency's flood insurance rate maps for Kansas.
FSA National Agricultural Imagery Program (NAIP) 2003	FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP)	2003 MrSID compressed Farm Service Agency (FSA) NAIP color aerial imagery tiled by county in 2-meter resolution.
FSA National Agricultural Imagery Program (NAIP) 2004	FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP)	2004 MrSID compressed Farm Service Agency (FSA) NAIP color aerial imagery tiled by county in 2-meter resolution.
GAP Analysis Program (GAP) ArcView 3.x Project & Final Report	GAP ANALYSIS PROGRAM (GAP) ARCVIEW 3.X PROJECT & FINAL REPORT	The Kansas GAP Final Report and an ArcView 3.x project with associated vector and raster files, as well as documentation detailing vertebrate habitat distribution models and land stewardship. Data files may be used separately outside the ArcView 3.x project.
GAP Analysis Program (GAP) Raster	GAP ANALYSIS PROGRAM (GAP)	The Kansas GAP Analysis Land Cover database depicts 43 land cover classes for the state of Kansas in raster format.
GAP Analysis Program (GAP) Vector	GAP ANALYSIS PROGRAM (GAP)	The Kansas GAP Analysis Land Cover database depicts 43 land cover classes for the state of Kansas.
Geographic Names Information System (GNIS)	GEOGRAPHIC NAMES INFORMATION SYSTEM (GNIS)	National Geographic Names Information System (GNIS) from USGS.
Geology - Surficial 24K	GEOLOGY - SURFICIAL 24K	This database is delivered as three shapefiles (geology, contacts, and beds) and one legend file (geology.avl). Available for Chautauqua, Chase, Elk, Greenwood, Johnson, Leavenworth, Lyon, Montgomery, Osage, Phillips, Russell, Shawnee, and Wyandotte counties.
Geology (Lines)	GEOLOGY	Generalized surface geology: attributed by system, series, and group.
Geology (Polygons)	GEOLOGY	Generalized surface geology: attributed by system, series, and group.
Glacial-drift Aquifer Base	GLACIAL DRIFT AQUIFER	Base of the Kansas Glacial drift Aquifer.
Glacial-drift Aquifer Extent	GLACIAL DRIFT AQUIFER	Extent of the Kansas Glacial drift Aquifer.
Glacial-drift Aquifer Potentiometric Surface	GLACIAL DRIFT AQUIFER	Potentiometric surface of the Kansas Glacial drift Aquifer.
GPS-Base	GPS-BASE	Global Positioning System base station data (Salina, KS).
Ground-based Statewide Vegetation Survey	GROUND-BASED STATEWIDE VEGETATION SURVEY	Locations of the field sites used to help create the Kansas Gap Analysis Land Cover map.
Groundwater Monitoring Chemical 1990-1994	ENVIRONMENTAL MONITORING	KDHE operational databases used to support water quality programs. Contains 6 layers.
Groundwater Monitoring System 1994	ENVIRONMENTAL MONITORING	KDHE operational databases used to support water quality programs. Contains 6 layers.
High Plains Aquifer Base	HIGH PLAINS AQUIFER	Extent, base, and potentiometric surface of the Kansas High Plains Aquifer
High Plains Aquifer Extent	HIGH PLAINS AQUIFER	Extent, base, and potentiometric surface of the Kansas High Plains Aquifer

Layer Name	Dataset Name	Description
High Plains Aquifer Potentiometric Surface	HIGH PLAINS AQUIFER	Extent, base, and potentiometric surface of the Kansas High Plains Aquifer
Highways - KDOT	HIGHWAYS - KDOT	Highways classified by Interstate, US Highways, and State Highways.
HUC Boundary 11-digit level	HUC 8-11 BOUNDARIES	Hydrologic Unit Code 11-digit Boundaries
HUC Boundary 14-digit level	HUC BOUNDARY 14-DIGIT LEVEL	Hydrologic Unit Level 14 Code Boundaries
HUC Boundary 8-digit level	HUC 8-11 BOUNDARIES	Hydrologic Unit Code 8-digit Boundaries
Hydrography 24K	HYDROGRAPHY 24K	Hydrography tiled by 1:24,000 quadrangle.
Hydrologic Features - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Hypsography 100K	HYP SOGRAPHY 100K	DLG 1:100,000 Hypsography (Elevation Contours) in Arc/Info Format.
Identified Sites	ENVIRONMENTAL RISK	KDHE operational databases used to support the environmental quality program. Contains 2 layers.
Incorporated Areas - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Incorporated Areas - 2000	TIGER 2000	TIGER 2000 US Census incorporated boundaries
Judicial Districts	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Judicial Districts locations, districts, or boundaries in Kansas
Juvenile Justice Authority-Community Corrections	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Juvenile Justice Authority-Community Corrections locations, districts, or boundaries in Kansas
Kansas Board of Pharmacy-Drug Inspectors	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Board of Pharmacy-Drug Inspectors locations, districts, or boundaries in Kansas
Kansas Commission on Veterans Affairs	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Kansas Commission on Veterans Affairs locations, districts, or boundaries in Kansas
Kansas Corporation Commission District Offices	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Kansas Corporation Commission District Offices locations, districts, or boundaries in Kansas
Kansas Highway Patrol Troop Areas	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Kansas Highway Patrol Troop Areas locations, districts, or boundaries in Kansas
Kansas House of Representatives Districts - 1990	LEGISLATIVE DISTRICTS - 1990	Legislative Districts of the Kansas House and Senate, and US House.
Kansas House of Representatives Districts - 2002	LEGISLATIVE DISTRICTS - 2002	Legislative Districts of the Kansas House and Senate, Kansas State Board of Education and US House.
Kansas Senate Districts - 1990	LEGISLATIVE DISTRICTS - 1990	Legislative Districts of the Kansas House and Senate, and US House.
Kansas Senate Districts - 2004	LEGISLATIVE DISTRICTS - 2002	Legislative Districts of the Kansas House and Senate, Kansas State Board of Education and US House. □
Kansas State Board of Education Districts - 2002	LEGISLATIVE DISTRICTS - 2002	Legislative Districts of the Kansas House and Senate, Kansas State Board of Education and US House. □
Kansas State University Extension Offices	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Kansas State University Extension Offices locations, districts, or boundaries in Kansas
Kansas Water Office Basins	KANSAS WATER OFFICE BASINS	Basin boundaries

Layer Name	Dataset Name	Description
Kansas Water Quality Uses	ENVIRONMENTAL REGULATION	KDHE operational databases used to support environmental and water quality programs. Contains 5 layers.
KCD County Boundaries	KANSAS CARTOGRAPHIC DATABASE (KCD)	Kansas Cartographic Database: major features digitized from 7.5min quadrangles.
KCD Hydrology	KANSAS CARTOGRAPHIC DATABASE (KCD)	Kansas Cartographic Database: major features digitized from 7.5min quadrangles.
KCD Major Highways	KANSAS CARTOGRAPHIC DATABASE (KCD)	Kansas Cartographic Database: major features digitized from 7.5min quadrangles.
KCD Railroads	KANSAS CARTOGRAPHIC DATABASE (KCD)	Kansas Cartographic Database: major features digitized from 7.5min quadrangles.
KCD Section Corners	KANSAS CARTOGRAPHIC DATABASE (KCD)	Kansas Cartographic Database: major features digitized from 7.5min quadrangles.
KCD Township Lines	KANSAS CARTOGRAPHIC DATABASE (KCD)	Kansas Cartographic Database: major features digitized from 7.5min quadrangles.
Key Geographic Locations - 2000	TIGER 2000	TIGER 2000 US Census key geographic locations - polygons
KGS Water Level Wells	ENVIRONMENTAL DATA SOURCES	Locations of sites that collect environmental data for Kansas.
Lake Monitoring 1994	ENVIRONMENTAL MONITORING	KDHE operational databases used to support water quality programs. Contains 6 layers.
Lake Monitoring Chemical 1990-1994	ENVIRONMENTAL MONITORING	KDHE operational databases used to support water quality programs. Contains 6 layers.
Land Cover	LAND COVER	Land Cover identified by 10 cover types. Published in 1993.
Land Use-Land Cover 250K	LAND USE-LAND COVER 250K	Landuse and Landcover polygons from USGS: nine major landuse classifications.
Landfills 1994	ENVIRONMENTAL REGULATION	KDHE operational databases used to support environmental and water quality programs. Contains 5 layers.
Landmark Points - 2000	TIGER 2000	TIGER 2000 US Census landmark points
Landmark Polygons - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Landmark Polygons - 2000	TIGER 2000	TIGER 2000 US Census landmark polygons
Landsat TM 1994	LANDSAT TM 1994	Landsat Thematic Mapper (TM): seven bands of satellite data per scene.
Landsat TM and ETM 2000-2001 Kansas Satellite Image Database (KSID)	KANSAS SATELLITE IMAGE DATABASE (KSID) 2000-2001	KSID 2000-2001 consists of Landsat 5 Thematic Mapper (TM) and Landsat 7 Enhanced Thematic Mapper (ETM+) imagery. All data is terrain-corrected, precision rectified spring, summer, and fall covering the state of Kansas.
Landsat TM and ETM 2002-2003 Kansas Satellite Image Database (KSID)	KANSAS SATELLITE IMAGE DATABASE (KSID) 2002-2003	KSID 2002-2003 consists of Landsat 5 Thematic Mapper (TM) and Landsat 7 Enhanced Thematic Mapper (ETM+).
LEO 3.6	LEO 3.6	MSDOS Program which converts legal locations (cadastral) to geographic locations (planimetric) and vice-versa.
LEO II PC	LEO II PC	MSDOS Program which converts legal locations (cadastral) to geographic locations (planimetric) and vice-versa.

Layer Name	Dataset Name	Description
Lottery Regions	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Lottery Regions locations, districts, or boundaries in Kansas
Lower Republican 305b 1994	ENVIRONMENTAL REGULATION	KDHE operational databases used to support environmental and water quality programs. Contains 5 layers.
Metropolitan Statistical Areas - 2000	TIGER 2000	TIGER 2000 US Census metropolitan statistical areas
Misc. Transportation - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Misc. Transportation - 2000	TIGER 2000	TIGER US Census 2000 TIGER data in Shape file format
MODIS 2002-2003 Kansas Satellite Image Database (KSID)	KANSAS SATELLITE IMAGE DATABASE (KSID) 2002-2003	KSID 2002-2003 consists of MODIS imagery.
MrSID Compressed Digital Orthophoto Counties 1991	MRSID COMPRESSED DIGITAL ORTHOPHOTO COUNTIES 1991	1991 digital orthogonally rectified black and white aerial photographs compressed with MrSID compression software.
MrSID Compressed Digital Orthophoto Counties 2002	MRSID COMPRESSED DIGITAL ORTHOPHOTO COUNTIES 2002	2002 digital orthogonally rectified black and white aerial photographs compressed with MrSID compression software.
National Climatic Data Center Locations	ENVIRONMENTAL DATA SOURCES	Locations of sites that collect environmental data for Kansas.
National Elevation Dataset (NED)	NATIONAL ELEVATION DATASET (NED)	The NED is a seamless mosaic of elevation data. The 7.5-minute □ elevation data for the conterminous United States are the primary □ initial source data.
National Hydrography Dataset (NHD)	NATIONAL HYDROGRAPHY DATASET (NHD)	Detailed hydrologic data containing information about surface water features such as lakes, ponds, □ streams, rivers, springs and wells.
National Pollutant Discharge Elimination System	ENVIRONMENTAL REGULATION	KDHE operational databases used to support environmental and water quality programs. Contains 5 layers.
National Wetlands Inventory (NWI)	NATIONAL WETLANDS INVENTORY (NWI)	Kansas National Wetlands Inventory tiled by 1:24,000 quadrangle.
Native American Reservations Boundaries - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Native American Reservations Boundaries - 2000	TIGER 2000	TIGER 2000 US Census native american reservation boundaries □
Natural Heritage Inventory Element Occurrence	NATURAL HERITAGE INVENTORY ELEMENT OCCURRENCE	Natural Heritage Inventory Element Occurance
Ogallala Bedrock Data Enhancement	OGALLALA BEDROCK DATA ENHANCEMENT	Consists of two primary parts: a line based GIS databsae depicting contour lines of the bedrock elevations for the Ogallala Aquifer and a point based GIS database depicting the locations of ground water wells where the bedrock elevation was identified and used to create contour lines.
Ozark Aquifer Base	OZARK AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Ozark Aquifer
Ozark Aquifer Extent	OZARK AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Ozark Aquifer
Ozark Aquifer Potentiometric Surface	OZARK AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Ozark Aquifer

Layer Name	Dataset Name	Description
Ozark Aquifer Top	OZARK AQUIFER	Extent, base, top, and potentiometric surface of the Kansas Ozark Aquifer
Parole Regions	STATE AGENCY ADMINISTRATIVE BOUNDARIES	Parole Regions locations, districts, or boundaries in Kansas
Playa Lakes	PLAYA LAKES	<p>This digital dataset provides information about the spatial distribution of soil units associated with playa lakes. Specific soil types have been designated by the Natural Resource Conservation Service (NRCS) as occurring in the basins of upland depressions commonly referred to as playa lakes. Digital soils data (1:24,000-scale) for 40 counties in western Kansas were compiled within a GIS environment. Specific soil units in each county associated with playa lakes were extracted. The final playa lake dataset was created by merging all the individual soil series files. The format of the final dataset is the ESRI shapefile.□</p> <p>□</p> <p>Playa lakes are only found on upland areas in the arid western half of the state. The 40 counties included in the analysis comprise the region of playa lake occurrence in Kansas.</p>
Political Townships - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Political Townships - 2000	TIGER 2000	TIGER 2000 US Census political townships
Public Land Survey System (PLSS)	PUBLIC LAND SURVEY SYSTEM (PLSS)	Public Land Survey System tiled by county.
Public Water Supply Sites	ENVIRONMENTAL REGULATION	KDHE operational databases used to support environmental and water quality programs. Contains 5 layers.
Railroads - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Railroads - 2000	TIGER 2000	TIGER 2000 US Census railroads
Riparian Inventory	RIPARIAN INVENTORY	Land Use categorization for riparian areas.
Roadways - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Roadways - 2000	TIGER 2000	TIGER 2000 US Census roadways
Rural Water District Boundaries	RURAL WATER DISTRICT BOUNDARIES	Polygons of Rural Water District boundaries.
Rural Water District Facilities	RURAL WATER DISTRIBUTION	Major facilities of Rural Water District distribution systems.
Rural Water District Pipelines	RURAL WATER DISTRIBUTION	Major pipelines of Rural Water District distribution systems.
Soils - Mean Permeability	SOILS - MEAN PERMEABILITY	Provides information on the magnitude and spatial pattern of depth-weighted, mean soil permeability□
Soils - Potential Runoff	SOILS - POTENTIAL RUNOFF	Provides information on the spatial distribution of potential runoff-contributing areas in Kansas.

Layer Name	Dataset Name	Description
Soils Lite	SOILS LITE	Certified Soil Survey Geographic tables summarized and combined into one table for use with either 24K Soils or SSURGO polygon and line data. Data are named by county FIPS codes, except for Leavenworth/Wyandotte counties are named 601 and Linn/Miami counties are 602.
SSURGO	SSURGO	<p>This data set is a digital soil survey and generally is the most detailed level of soil geographic data developed by the National Cooperative Soil Survey. The information was prepared by digitizing maps, by compiling information onto a planimetric correct base and digitizing, or by revising digitized maps using remotely sensed and other information. □</p> <p>□ This data set consists of georeferenced digital map data and computerized attribute data. The map data are in a soil survey area extent format and include a detailed, field verified inventory of soils and miscellaneous areas that normally occur in a repeatable pattern on the landscape and that can be cartographically shown at the scale mapped. A special soil features layer (point and line features) is optional. This layer displays the location of features too small to delineate at the mapping scale, but they are large enough and contrasting enough to significantly influence use and management. The soil map units are linked to attributes in the National Soil Information System relational database, which gives the proportionate extent of the component soils and their properties.</p>
State Conservation Commission Administrative Areas	STATE AGENCY ADMINISTRATIVE BOUNDARIES	State Conservation Commission Administrative Areas locations, districts, or boundaries in Kansas
State Fire Marshal-Fire Prevention Division	STATE AGENCY ADMINISTRATIVE BOUNDARIES	State Fire Marshal-Fire Prevention Division locations, districts, or boundaries in Kansas
State Fire Marshal-Health Care Inspectors	STATE AGENCY ADMINISTRATIVE BOUNDARIES	State Fire Marshal-Health Care Inspectors locations, districts, or boundaries in Kansas
STATSGO	STATSGO	State soil geographic database: generalized soils survey of Kansas.
Stream Evaluation	STREAM EVALUATION	Stream evaluation.
Stream Monitoring Chemical 1990-1995	ENVIRONMENTAL MONITORING	KDHE operational databases used to support water quality programs. Contains 6 layers.
Stream Monitoring System 1997	ENVIRONMENTAL MONITORING	KDHE operational databases used to support water quality programs. Contains 6 layers.
SWIMS Water Bodies	SURFACE WATERS INFORMATION MANAGEMENT SYSTEM (SWIMS)	Continuous hydrologic network referenced to EPA-RF3 w/ water bodies, misc. hydro.
SWIMS Water Networks	SURFACE WATERS INFORMATION MANAGEMENT SYSTEM (SWIMS)	Continuous hydrologic network referenced to EPA-RF3 w/ water bodies, misc. hydro.

Layer Name	Dataset Name	Description
SWIMS Water Points	SURFACE WATERS INFORMATION MANAGEMENT SYSTEM (SWIMS)	Continuous hydrologic network referenced to EPA-RF3 w/ water bodies, misc. hydro.
Threatened and Endangered Species Occurrences	THREATENED AND ENDANGERED SPECIES OCCURRENCES	Threatened and Endangered Species Occurrences.
Treatment Storage Disposal Site	ENVIRONMENTAL RISK	KDHE operational databases used to support the environmental quality program. Contains 2 layers.
U.S. EPA Reach File Version 1.0	U.S. EPA REACH FILE VERSION 1.0	River reach one basic hydrology, 1:500,000 hydrography of Kansas.
Unified School Districts - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Unified School Districts - 2000	TIGER 2000	TIGER 2000 US Census unified school district boundaries
US Conservation Service Resource Conservation and Development	STATE AGENCY ADMINISTRATIVE BOUNDARIES	US Conservation Service Resource Conservation & Development locations, districts, or boundaries in Kansas
US House of Representatives Districts - 1990	LEGISLATIVE DISTRICTS - 1990	Legislative Districts of the Kansas House and Senate, and US House.
US House of Representatives Districts - 2002	LEGISLATIVE DISTRICTS - 2002	Legislative Districts of the Kansas House and Senate, Kansas State Board of Education and US House. □
USGS 100K Quadrangle Boundary	USGS 100K QUADRANGLE BOUNDARY	USGS 1:100,000-scale Quadrangle Boundaries
USGS 24K Quadrangle Boundary	USGS 24K QUADRANGLE BOUNDARY	USGS 1:24,000-scale Quadrangle Boundaries
USGS 250K Quadrangle Boundary	USGS 250K QUADRANGLE BOUNDARY	USGS 1:250,000 Quadrangle Boundaries
USGS Surface Water Gauging Station Locations	ENVIRONMENTAL DATA SOURCES	Locations of sites that collect environmental data for Kansas.
Voting Districts - 1990	TIGER 1990	US Census 1992 TIGER data in Arc/Info format.
Voting Districts - 2000	TIGER 2000	TIGER 2000 US Census voting districts
Water Information Management and Analysis System (WIMAS) v. 4.0	WATER INFORMATION MANAGEMENT AND ANALYSIS SYSTEM (WIMAS) V. 4.0	Water Information Management & Analysis System which displays and queries water rights.
Watershed District	WATERSHED DISTRICT	Watershed district boundaries in Kansas.
Zip Code (3-digit) Boundaries - 2000	TIGER 2000	TIGER 2000 US Census 3-digit zip code boundaries
Zip Code (5-digit) Boundaries - 2000	TIGER 2000	TIGER 2000 US Census 5-digit zip code boundaries