

Approved 1-29-91
Date

MINUTES OF THE House COMMITTEE ON Appropriations

The meeting was called to order by George Teagarden at
Chairperson

1:30 ~~am~~/p.m. on January 24, 1991 in room 514-S of the Capitol.

All members were present except: Representatives Adam, Solbach, Hensley,
Kline and Lowther (excused)

Committee staff present: Ellen Piekalkiewicz, Legislative Research Department
Debra Duncan, Legislative Research Department
Jim Wilson, Revisor of Statutes
Susan Miller, Administrative Aide
Sue Krische, Committee Secretary

Conferees appearing before the committee:

John Baldwin, Chairman, Kansas Water Authority
Clark Duffy, Assistant Director, Kansas Water Office
Joseph Harkins, Chairman, GIS Policy Board and Director, Kansas Water Office
Dr. Robert Wiseman, Manager, Kansas Geographic Information Program

Others attending: see attached list.

John Baldwin, Chairman, Kansas Water Authority, testified that the Water Authority is very supportive of the Governor's funding recommendations in FY 1992 for the Kansas Water Plan (Attachment 1).

Clark Duffy, Assistant Director, Kansas Water Office, provided an overview of the Governor's recommendations for FY 1992 implementing the Kansas Water Plan (Attachment 2). He noted the total recommended funding for FY 1992 of \$13,763,527 represents full funding for the major components in the State Water Plan. In response to a question, Mr. Duffy indicated the effect on the State Water Plan if there are no revenue enhancements as proposed by the Governor this year would be a reduction of \$3 million in funding, which on the expenditure side would be a reduction of \$1.5 million from the Kansas Department of Health and Environment environmental remediation program and the elimination of the Sabetha Multipurpose Lake project.

Joseph Harkins, Chairman, Geographic Information Systems Policy Board, provided an update on the status of the GIS management program and distributed an FY 1992 Annual Implementation Plan (Attachment 3). Mr. Harkins noted the State Water Authority is supporting in FY 1992 a proposal for the development and implementation of a comprehensive natural resources based management system for water resources in Kansas. The concept will involve the development of management processes that are designed to solve the problem of having nine state agencies sharing the responsibility for one resource. Mr. Harkins advised that the FY 1992 requested geographic information systems funding represents the second year of implementation of the GIS program. He provided a summary of the Governor's GIS funding recommendations systemwide for FY 1992 (Attachment 4).

Dr. Robert Wiseman, Manager, Kansas Geographic Information Program, appeared to discuss accomplishments and goals of the program. Dr. Wiseman explained that the intent of GIS technology is to provide graphic and analytical capabilities in support of decision-making processes. The mechanism in place to coordinate the data and its use among state agencies is the GIS Policy Board. A booklet on the "Strategic Management Plan for Geographic Information Systems Technology" developed by the GIS Policy Board was distributed to the members (on file in the House Appropriations Committee office and available from the Kansas Water Office).

The meeting was adjourned at 3:00 p.m. The next meeting is scheduled for Monday, January 28 at 1:30 p.m. in 514-S.

GUEST LIST

COMMITTEE: HOUSE APPROPRIATIONS

DATE: 1-24-91

NAME (PLEASE PRINT)	ADDRESS	COMPANY/ORGANIZATION
Julie Hein	Topeka	Hein + Ebert
Warren Parker	Manhattan	Ks. Farm Bureau
M.S. MITCHELL	Wichita	HBAK
Rick McKee	Topeka	X.L.A.
Gary Reser	Topeka	Governor's office
Janice McClure	Glen Elder	
Pat Williams	Beloit	Solomon Valley Post
Marty Kennedy	Topeka	DAB
ROBERT W BUDDEMEIER	LAWRENCE	KGS
George Barbee	Topeka	KS Consulting Engrs
James H. Parker	Topeka	DISC (D OF A)
Richard D. Miller	Topeka	KDHE
Ron Hammerschmidt	Topeka	KDHE
Kerry Metzger	Topeka	KWS
Allen Pickert	Lawrence	Roy Carl Holmes
Bill R. Fuller	Manhattan	Kansas Farm Bureau
Janeen Grace	Topeka	Kansas Natural Resource Council
Dick Koerth	Topeka	KDW P
Mike Bohnhoff	Topeka	DOB
TRACY STREETER	TOPEKA	SCC
LOLA WARNER	"	"
Kenneth Keen	"	SCC
David L Popel	"	DWR KSBA
Paula L. Frerksen	"	League of Kansas Municipalities

Testimony of
John L. Baldwin, Chairman
Kansas Water Authority

Before the
House Appropriations Committee

January 24, 1991

HA
1-24-91
Attachment 1

Testimony of
John L. Baldwin, Chairman
Kansas Water Authority

Before the
House Appropriations Committee

Thank you, Mr. Chairman.

I am John Baldwin from Hutchinson, Kansas, and a lifetime resident of Kansas. I have been Chairman of the Kansas Water Authority since 1987.

The Kansas Water Authority is a 22-member panel of private citizens and state water-related agency directors created in 1981. Its primary responsibility is to approve the *Kansas Water Plan* and make recommendations to the Governor and Legislature on a broad spectrum of water management issues.

The Kansas Water Authority works closely with the Kansas Water Office, 12 private citizen basin advisory committees and other public and private interests to develop the *Kansas Water Plan*.

Since 1985, that Plan and the process that produced it has become the benchmark for most of the 17 western states.

Our *Kansas Water Plan* is unique in that it gets implemented. It is revised and updated yearly and, as a result, gets better and better each year.

We are proud of our Plan, Mr. Chairman, because it works. It does what a Plan is supposed to do. It works because the programs and actions it recommends to solve our state's water problems are now funded from a permanent, dedicated funding source established by S.B. 398 in 1989. These funds started to become available in the last half of 1990. Our goal is to utilize these funds in the best possible manner.

Adequate funding of *Kansas Water Plan* programs and projects is critical to the continued comprehensive management of our state's most vital natural resource. WATER!

I heartily thank the members of the Authority for the diligence and determination they demonstrated in drafting our budget recommendation for consideration by the 1991 Legislature.

I want to indicate that we are totally supportive of the Governor's funding for Fiscal Year 1992 *Kansas Water Plan* activities. We can appreciate the necessity for fiscal restraints at this critical time in the budgetary process and will make the necessary adjustments.

Accompanying me today is Mr. Clark Duffy, Assistant Director of the Kansas Water Office, who will detail the Governor's *Kansas Water Plan* budget recommendations.

Thank you.

*Summary of Governor Finney's
Recommendations to Implement the
FY 1992 Kansas Water Plan*

*Compiled By
The Kansas Water Office*

January 24, 1990¹

*HA
1-24-91*

Attachment 2

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Summary of Governor Finney's Recommendations
to Implement the State Water Plan for FY 1992

	SWPF 1	Other	Total
Kansas Corporation Commission			
Contamination Remediation	\$0	\$500,000 ²	\$500,000
Kansas Department of Health and Environment			
Contaminatin Remediation	\$2,000,000	\$0	\$2,000,000
Local Environmental Aid	1,366,137	0	\$1,366,137
Private Well Protection	86,226	0	\$86,226
Non-Point Source Program	430,061	0	\$430,061
Subtotal - KDHE	\$3,882,424	\$0	\$3,882,424
Kansas Department of Wildlife and Parks			
Cheyenne Bottoms	\$0	\$500,000 ³	\$500,000
Hillsdale State Park	0	1,000,000 ³	\$1,000,000
Subtotal - KDWP	\$0	\$1,500,000	\$1,500,000
Kansas State Board of Agriculture			
Division of Water Resources			
Conservation Plan Coordination	\$100,000	\$0	\$100,000
Water Data Base Renovation	50,000	0	\$50,000
Subtotal - KSBA	\$150,000	\$0	\$150,000
Kansas Water Office			
Geographic Information Systems	\$620,880	\$0	\$620,880
Geography Resource Center	100,000		100,000
Lower Arkansas River	100,000		100,000
Upper Arkansas River	36,000		36,000
Subtotal - KWO	\$856,880	\$0	\$856,880
State Conservation Commission			
Sabetha Multipurpose Lake	\$1,474,223	\$0	\$1,474,223
Land Treatment Cost-Share	3,500,000	0	\$3,500,000
Watershed Dam Construction	1,700,000	0	\$1,700,000
Subtotal - SCC	\$6,674,223	\$0	\$6,674,223
University of Kansas			
Kansas Geological Survey			
Dakota Aquifer Study	\$200,000	\$0	\$200,000
TOTAL	\$11,763,527	\$2,000,000	\$13,763,527

1 - SWPF = State Water Plan Fund

2 - Conservation Fee Fund

3 - General Facilities Building Fund

**Kansas Corporation Commission
Contamination Remediation**

Program Description: The Kansas Corporation Commission is responsible for directing the clean-up of water and soil resources contaminated by gas and oil-related products or wastes from active and temporarily abandoned leases. The Kansas Corporation Commission works with responsible parties to develop and implement remediation plans. Conservation Fee Fund money may be used to address areas of contamination which pose an immediate endangerment to water supplies. The remediation program also involves the plugging of abandoned oil, gas or service wells.

The Kansas Corporation Commission tries to maintain an account with a starting balance of about \$500,000 each year to plug abandoned wells and to provide initial investigation of chloride contamination occurrences. The plugging of abandoned wells are prioritized based upon threats to the environment, public water supplies and public health. Abandoned wells are generally not listed as contamination sites unless the pollution is related to the existence of a well or group of wells. There are 64 sites on the Identified Site List which are the responsibility of the Kansas Corporation Commission. A copy of this list is contained in the 1989 "Summary of Bureau of Environmental Remediation Sites in Kansas," February 1990, Kansas Department of Health and Environment.

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
Conservation Fee Fund	\$500,000	\$600,000	\$600,000	\$600,000	\$600,000
FTE	0	0	0	0	0

FY 91
500,000

Compliance With Legal Requirements

Sub-section Implemented: Water Quality of all 12 Basin Sections

Five Year Plan: Yes

Water-Related Expenditures: Not applicable

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

**Kansas Department of Health and Environment
Contamination Remediation**

Program Description: UST-Trust, Multi-state Agreement, and the various Super Fund grants do not cover costs of investigation and clean-up of all contamination sites where the responsible party is not known or can not clean-up a site. Sites contaminated with salt water, which is the most common groundwater contaminate, are of particular concern. \$2,000,000 is recommended for remediation of those sites that cannot be remediated with other sources of funds.

There are 322 sites on the Identified Site List which are the responsibility of the Kansas Department of Health and Environment. These funds will be used to remediate the priority sites on the list. A copy of this list is contained in the 1989 "Summary of Bureau of Environmental Remediation Sites in Kansas," February 1990, Kansas Department of Health and Environment.

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$2,000,000	\$3,000,000	\$200,000	\$0	\$0
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Water Quality, All Basin Sections

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

**Kansas Department of Health and Environment
Local Environmental Aid**

Program Description: This program provides grants to local units of government for water quality protection at the local level. Local involvement allows a more efficient response to water quality needs than the state can provide. The FY 1992 funding recommendation provides grants to counties for program development, implementation and enforcement of local environmental protection plans.

Local health departments or other local entities may apply for grants individually or in groups. The program is developed in two phases. The initial phase is core component development. This phase includes the implementation and enforcement of the county sanitary code for the management of on-site sewage disposal systems and private wells, and subdivision water and wastewater management.

The second phase of the program is the development and implementation of supplemental components which expand the core services. Supplemental components could include solid waste management, public water supply protection, hazardous waste management, hazardous waste management and non-point source pollution control; depending upon local needs. Both core and supplemental components can be tailored to provide targeted protection for especially valuable and/or vulnerable resources.

All counties are eligible for \$7,000 or \$0.55 per capita, up to \$125,000, in base funds. Base funds are used for basic program operation and development, including salary for local environmental specialists. Counties may also apply for target funds to implement targeted protection programs for valuable and/or vulnerable resources.

Of the \$1,366,137 recommended for FY 1992, \$150,000 is recommended for the continuation of the Household Hazardous Waste Program. This expenditure would allow for the continuation of grants to communities which are developing local hazardous waste collection programs.

**Governor's
Recommendation Projections for Future Fiscal Years**

#1.9

	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$1,366,137	\$2,189,182	\$2,189,182	\$2,189,182	\$2,189,182
FTE	0	0	0	0	0

Compliance With Legal Requirements

- Sub-section Implemented:** Water Quality, All Basin Sections
- Five Year Plan:** Yes
- Water-Related Expenditures:** Yes
- Existing Positions:** Not applicable
- Recreation Project Goals:** Not applicable

**Kansas Department of Health and Environment
Private Well Protection**

Program Description: This expenditure would, in part, implement the Protection of Private Well Water Supplies Sub-section.

These funds are for the Kansas Department of Health and Environment to assume responsibility for coordination and administration of the program as outlined in the *Kansas Water Plan*. The Kansas Department of Health and Environment will:

- a. Assemble and publish a private well owner's handbook.
- b. Encourage health departments to provide periodic screening of private wells.
- c. Provide a list of certified laboratories to the county health officials and county extension agents, for public distribution.
- d. Train county health departments and extension agents to provide technical assistance to private well owners for remediation of problems in their well water supplies.
- e. Contract with the Cooperative Extension Service to conduct workshops on protection of private well water supplies in each basin.

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$86,877	\$33,721	\$30,407	\$26,927	\$23,274
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Protection of Private Well Water Supplies, Quality Section

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

**Kansas Department of Health and Environment
Non-Point Source Program**

Program Description: This technical assistance program is available to local health departments, conservation districts or other local entities, for the Local Environmental Protection Program and the Non-Point Source Pollution Control Program.

The fundamental purpose of the Local Environmental Protection Program is to facilitate the effective use of local authority to prevent or correct pollutant sources which degrade water quality. Technical assistance is available to local entities to develop and implement programs related to hazardous or solid waste management, non-point source pollution management, or public water supply protection, depending on local water quality needs.

The Kansas Department of Health and Environment is responsible for providing technical assistance to local entities to assure that local non-point source programs are conducted in accordance with Kansas Non-point Source Pollution Control principles and practices.

The Kansas Non-point Source Pollution Control Fund is administered by the Kansas State Conservation Commission. Funds are provided to county conservation districts for implementing non-point source pollution control plans in targeted geographic areas.

Complete execution of a non-point source pollution control plan consists of three phases: (1) assessment, (2) implementation and (3) evaluation. Assessment is the process of determining the specific needs of the targeted area and preparing a detailed implementation plan or action plan to restore damaged water quality or prevent future water quality damages. The action plan will identify needed pollution control measures, their cost and schedule for installation. Evaluation is the process of determining whether the action plan was fully implemented and the desired water quality restoration or protection results achieved.

**Governor's
Recommendation Projections for Future Fiscal Years**

	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$429,410	\$440,885	\$462,928	\$486,075	\$510,379
FTE	0	0	0	0	0

Compliance With Legal Requirements

- Sub-section Implemented:** Water Quality, All Basin Sections
- Five Year Plan:** Yes
- Water-Related Expenditures:** Yes
- Existing Positions:** Not applicable
- Recreation Project Goals:** Not applicable

**Kansas Department of Wildlife and Parks
Cheyenne Bottoms**

Program Description: This recommendation is for continuation of the renovation project at the Cheyenne Bottoms Waterfowl Area. For FY 1992, work will be accomplished in accordance with the hydrology and engineering study conducted by the Kansas Department of Wildlife and Parks. The proposed FY 1992 work will include reconfiguration of dikes, development of a water transport system or improvement of the existing system, and development of deep water storage and gaging.

The Cheyenne Bottoms Waterfowl Area is a critical stopping point for migrating birds. The proposed developments will assist in providing needed habitat for waterfowl by assuring adequate water management facilities are available.

**Governor's
Recommendation Projections for Future Fiscal Years**

	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
General Facilities					
Building Fund	\$500,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
FTE	0	0	0	0	0

Compliance With Legal Requirements

- Sub-section Implemented:** Fish, Wildlife and Recreation, Lower Arkansas and Upper Arkansas Basin Section
- Five Year Plan:** Yes
- Water-Related Expenditures:** Not applicable
- Existing Positions:** Not applicable
- Recreation Project Goals:** Not applicable

**Kansas Department of Wildlife and Parks
Hillsdale State Park**

Program Description: This recommendation project provides for continued development of a state park at Hillsdale Reservoir in Miami County. Development of the park was initiated in FY 1989 with the preparation of a Master Plan. Additional funds have been provided in subsequent years to provide for construction of facilities.

For FY 1992, new construction will be focused on enlarging overnight facilities and major development, such as shower buildings, bathhouses, roads, utilities and a park office and shop. Such facilities will be constructed at various locations within the park in accordance with the Master Plan.

Hillsdale State Park is located in close proximity to a major metropolitan area and heavy use of the park is anticipated. Therefore, the proposed facilities are needed to address the estimated visitation that will occur.

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
General Facilities					
Building Fund	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Fish, Wildlife and Recreation, Marais des Cygnes Basin Section

Five Year Plan: Yes

Water-Related Expenditures: Not applicable

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

**Kansas State Board of Agriculture
Division of Water Resources
Conservation Plan Coordination**

Program Description: For FY 1992, \$100,000 will be used to continue contracts with the five groundwater management districts. Each district will use this money to carry out Water Conservation Program plan review and implementation. This activity will assist the Chief Engineer-Director in carrying out his responsibility to review conservation plans which may be required as conditions of permits issued by the Chief Engineer-Director.

**Governor's
Recommendation Projections for Future Fiscal Years**

Since

	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$100,000	\$150,000	\$150,000	\$150,000	\$150,000
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Water Use Conservation, Conservation Section

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

**Kansas State Board of Agriculture
Division of Water Resources
Water Data Base Renovation**

Program Description: These funds will be used for the second year of a two year study to determine computer support needs with respect to the Kansas Water Data Base. The present water rights information system, which operates on the mainframe, was designed by the Division of Information Systems and Communications in 1978-1979, programming started in 1980, and the first water data entered in 1981. This system is used by the Division of Water Resources, many other state agencies and other entities. By 1994, this system will be 15 years old and needs updating and revision to take advantage of significant technical improvements in hardware and software developed over the past 15 years.

**Governor's
Recommendation Projections for Future Fiscal Years**

	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$50,000	\$0	\$0	\$0	\$0
FTE	0	0	0	0	0

\$50,000

Compliance With Legal Requirements

Sub-section Implemented: This type of project was anticipated in the FY 1988 Monitoring, Data and Information Sub-section implemented in FY 1988.

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

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**Kansas Water Office
Geographic Information System**

Program Description: On behalf of the GIS Policy Board \$620,888 is recommended from the State Water Plan Fund. These funds will be used for second year database development and acquisition and for a Data Access Center. This may include continuation of multi-year development projects initiated in FY 1991 (e.g., soils, land use/cover) as well as initiation of new data sets not previously funded for development (e.g., intermediate scale geology, surface elevation).

This expenditure only represents the *Kansas Water Plan* component of state's effort to manage the development of geographic information technology. More detailed information is available from the Geographic Information Policy Board report.

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$620,880	\$500,000	\$300,000	\$300,000	\$300,000
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: This type of project was anticipated in the FY 1988 Monitoring, Data and Information Sub-section implemented in FY 1988.

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

**Kansas Water Office
Geography Resource Center**

Program Description: The Geography Resource Center is to be located at one of the universities participating in the Kansas Geography Alliance Education Program. The Geography Resource Center will provide support facilities and training for geography teachers as well as develop the outcome-based natural resources curriculum for Kansas schools. The Public Education Sub-section of the *Kansas Water Plan* includes the following recommendations:

"The State of Kansas should establish a natural resources geography curriculum in the public school system, supported by a Geography Resource Center." ...
 "State funding for the Geography Resource Center is projected to cost \$100,000 per year for three years." ...
 "Funding will come through an appropriation to the Kansas Water Office..."

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$100,000	\$100,000	\$100,000	\$0	\$0
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Public Education, Management Section
Five Year Plan: Yes
Water-Related Expenditures: Yes
Existing Positions: Not applicable
Recreation Project Goals: Not applicable

2-14

**Kansas Water Office
Lower Arkansas River**

Program Description: This Stream/Aquifer Interaction Research of the Arkansas River between Hutchinson and Wichita was initiated because salty water in the Arkansas River has diffused into the adjacent Equus Beds Aquifer. The Equus Beds serves as the water supply source for a large part of south central Kansas, including the City of Wichita. Proper management of withdrawal rates of groundwater adjacent to the river is essential to preventing additional salty water from entering the fresh water.

Recent hydrologic study in the area started in FY 1986 when the Bureau of Reclamation, under their assistance-to-states program, drilled 21 observation wells in a cross section between Bentley and Colwich. Work has continued since that time and state cost-sharing will be necessary in FY 1992 to allow continued involvement by the Bureau of Reclamation.

\$100,000 is recommended to match the funds from the Bureau of Reclamation and the U.S. Geological Survey for model development, assessment and evaluation for the study area and report preparation. This information is necessary to enable appropriate management policies to be carried out by Groundwater Management District No. 2 and the Division of Water Resources.

The following table indicates the fiscal requirements of this project:

	<u>FY 86-FY 91</u>	<u>FY 92</u>
Kansas Water Office	\$201,588	\$100,000
Groundwater Management District No. 2	86,000	17,000
Federal Funding	<u>815,390</u>	<u>130,000</u>
TOTAL	\$1,102,978	\$247,000

	Governor's Recommendation				
	Projections for Future Fiscal Years				
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$100,000	\$0	\$0	\$0	\$0
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Water Supply, Lower Arkansas Basin Section

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

**Kansas Water Office
Upper Arkansas River**

Program Description: Depletion of historic streamflows along the Arkansas River has been noted along the reach from Kinsley to Great Bend in the 1970's and 1980's. Regional groundwater pumpage has been suspected of being a primary cause of this depletion. A three-year study was proposed by the Kansas Geological Survey and the first year funded was in FY 1986. The subsequent two-study years did not receive funding. The first year of work involved data collection and a pump test to examine interactions between wells and the river. Preliminary results indicated there was a strong interaction between the streamflow and groundwater. An allocation of \$20,000 was used to fund the second year of the study to develop a simulation model of the reach so alternative management options may begin to be explored. An additional two years of model verification and impact assessment will follow. This work will be completed by the Kansas Geological Survey.

	Governor's Recommendation Projections for Future Fiscal Years				
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$36,000	\$32,000	\$0	\$0	\$0
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Water Supply, Upper Arkansas Basin Section
Five Year Plan: Yes
Water-Related Expenditures: Yes
Existing Positions: Not applicable
Recreation Project Goals: Not applicable

2-16

**State Conservation Commission
Sabetha Multipurpose Lake**

Program Description: The Multipurpose Small Lakes Program provides for "add on" features to a planned structure (dam). The "add on" feature provides for the development of a proposed structure to its fullest potential and renovation of an existing structure to provide for additional benefits. A planned flood control structure, if it meets the criteria, may become a multipurpose structure by adding water storage and/or recreation. A planned water supply structure may become a multipurpose structure by adding flood control or flood control and recreation. The same holds true for a renovation project. Each structure must contain flood control features to be eligible for Multipurpose Small Lakes Program funding. State assistance for water supply "add on" requires reimbursement.

For FY 1992 \$1,474,233 is recommended for the Poney Creek Project at Sabetha. This project will provide flood control for a severe flood prone area and public water supply for the cities of Sabetha and Morrill. The City of Sabetha, as a co-sponsor of the project, will reimburse the state for the cost of the water supply storage (\$815,425) when it purchases the water right.

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$1,474,223	\$1,136,000	\$1,530,000	\$0	\$0
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Water Supply and Flooding; Kansas-Lower Republican and Missouri Basin Sections

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable (State assistance is not provided for the recreation portion of this project.)

**State Conservation Commission
Land Treatment Cost-Share**

Program Description: Land Treatment Cost-Share funds are recommended for the Water Resources Cost-Share Program (\$2,720,000) and the High Priority Water Resources Cost-Share Program (\$780,000). The Water Resources Cost-Share Program provides funds on a cost-sharing basis to assist landowners in the construction of enduring water resources conservation projects. These projects, not a part of normal project farming operations, are in the public interest for the protection and enhancement of the water resources. Construction costs of these practices exceed financial benefits accruing to the landowners.

Funds for the Water Resources Cost-Share Program will be administered through all 105 conservation districts based upon water quality, water quantity and district size. Each conservation district develops its program from among state approved practices, and each determines priorities for granting cost-share assistance. Specific projects identified for FY 1992 are available from the conservation districts through the State Conservation Commission.

The High Priority Cost-Share Program is a land treatment program which provides state financial assistance on a cost-sharing basis for the establishment of enduring conservation practices. Funding for this program is targeted to high priority areas within the state which are identified through the *Kansas Water Plan* annual basin planning process.

The program is administered to Kansas landowners through the 105 county conservation districts. Each conservation district develops its program from among state approved practices; and each determines priorities for granting cost-share assistance, provided they are consistent with the state's identified priorities. Specific projects identified for FY 1992 are available from the conservation districts through the State Conservation Commission.

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$3,500,000	\$8,410,655	\$8,890,727	\$9,263,397	\$5,866,056
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Water Quality, All Basin Sections; Water Supply, All Basin Sections but the Missouri; Flooding all Basin Sections but the Upper Republican

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

2-18

**University of Kansas
Kansas Geological Survey
Dakota Aquifer Study**

Program Description: For FY 1992, the results of the previous research will be used to develop a foundation for the characterization of the future water resources potential of the Dakota Aquifer in the areas presently experiencing the heaviest use and where the aquifer outcrops or is in the shallower part of the subsurface.

Also during FY 1992, additional sampling of the monitoring sites will be undertaken in order to complete the database on geochemical and isotopic analyses for the hydrostratigraphic units studied. This work will help to establish a database for geochemical and isotopic signatures for the geologic units that currently have little available information.

With the completion of the synthesis phase during FY 1992, Kansas Geological Survey expects to be considerably ahead of schedule in the Dakota Aquifer Program. Further efforts during years five through nine will be devoted to areas of northwest Kansas where the depth to the Dakota Aquifer is considerable.

	Governor's Recommendation	Projections for Future Fiscal Years			
	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996
State Water Plan Fund	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
FTE	0	0	0	0	0

Compliance With Legal Requirements

Sub-section Implemented: Water Supply, Smoky Hill-Saline and Solomon Basin Sections

Five Year Plan: Yes

Water-Related Expenditures: Yes

Existing Positions: Not applicable

Recreation Project Goals: Not applicable

Status of the State Water Plan Fund

	<u>FY 1990</u> <u>Actual</u>	<u>FY 1991</u> <u>Estimate</u>	<u>FY 1992</u> <u>Governor's</u> <u>Recommendation</u>
Beginning Balance	-----	\$264,789	\$2,339,375
Reappropriations in Agency Accounts	-----	968,748	-----
Receipts			
SGF Transfer	-----	\$5,895,000	\$3,000,000
EDIF Transfer	-----	2,000,000	-----
Municipal Water Use Fee	\$2,263,691	3,100,000	3,100,000
Industrial Water Use Fee	557,793	1,341,147	1,600,000
Stock Water Use Fee	107,560	226,800	237,00
Pesticide Label Fees	998,379	1,937,950	1,937,500
Fertilizer Use Fees	690,600	621,600	590,500
Environmental Fines	94,875	94,875	94,875
Total receipts	<u>\$4,712,898</u>	<u>\$15,217,372</u>	<u>\$10,560,325</u>
Transfers in (Lapses from Agency Accounts)	<u>-----</u>	<u>\$1,361,207</u>	<u>-----</u>
Total Available	\$4,712,898	\$17,812,116	\$12,899,700
Transfers Out			
Expenditures from Agency Accounts	\$1,736,904	\$15,472,741	\$11,763,527
Transfer to SGF	381,250	-----	-----
Balance in Agency Accounts	<u>2,329,955</u>	<u>-----</u>	<u>-----</u>
Total Transfers Out	\$4,448,109	\$15,472,741	\$11,763,527
Balance Forward	<u>\$264,789</u>	<u>\$2,339,375</u>	<u>\$1,136,173</u>

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**FY 1990 Actual Expenditures
From the State Water Plan Fund**

1. Transfer to the State General Fund \$381,250

This transfer was made to reimburse the State General Fund for State Water Plan Program expenditures financed from the State General Fund that were in addition to the 1989 Governor's Budget Report recommendations. These additional program expenditures were: Watershed Dam Construction Program - \$365,000, Stream/Aquifer Interaction Studies - \$150,000, Mineral Intrusion Study \$66,250 - for a total of - \$581,280. \$200,000 of this amount was offset by legislative action to finance the Dakota Aquifer Study from oil over charge funds rather than the State General Fund as recommended by the Governor.

2. State Conservation Commission

- A. Watershed Planning \$98,855

Professional Engineering Services contract to provide topographic maps for 32 proposed watershed dam sites in the North and Upper Black Vermillion watershed drainage area of the Upper Black Vermillion Watershed Joint District No. 37 in Marshall and Nemaha counties.

- B. Watershed Construction Program \$358,080

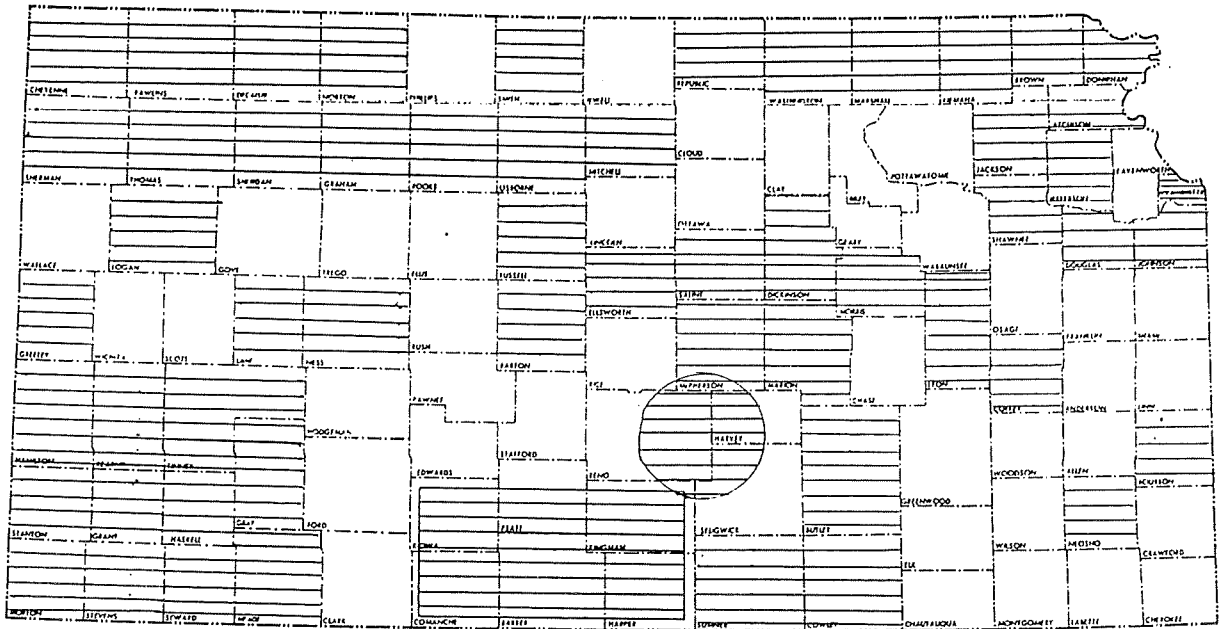
This program provides state cost-share assistance for the construction of watershed dams. The maximum cost-share level is 70 percent of the actual costs of construction and the actual costs of engineering, geologic investigations and inspections, not to exceed 10 percent of the construction costs. The maximum annual assistance shall not exceed \$120,000.00 per district. FY 1990 State Water Plan Fund projects were:

Watershed District	Site	County	Actual Expenditure
Delaware No. 10	D-14	Jackson	\$ 26,097
Wolf River No. 66	11-7	Brown	33,800
Wolf River No. 66	B-2	Brown	39,640
Delaware No. 10	D-68	Jackson	17,024
Rock Creek No. 45	50	Pottawatomie	20,728
Rock Creek No. 45	59	Pottawatomie	41,520
Upper Walnut No. 33	SP-3	Butler	60,000
Whitewater No. 22	SP-5	Butler	80,226
Delaware No. 10	C-125	Jackson	19,169
Delaware No. 10	C-129	Jackson	19,876
			<u>358,080</u>

C. Non-Point Source Pollution Control

\$16,757

Technical assistance contract with a consultant to provide assistance to Kansas conservation districts in the process of development and implementation of a Local Non-Point Source Pollution Management Plan and Project Work Plan. The consultant provided assistance to 57 conservation districts in 60 meetings at 48 locations during FY 1990. Technical assistance was provided in the following counties:



D. Land Treatment - Wellington Multipurpose Small Lake

\$158,074

Land treatment measures are cost-shared with landowners in the drainage area of the Wellington Multipurpose Small Lakes Project in Sumner County. Land treatment is required by statute in the drainage area to protect the state's investment from pollution and sedimentation. The maximum cost-share rate is 80 percent of the actual costs or county average costs, whichever is less. Cost-share funds were used to construct 103.37 acres of grassed waterways and 70.66 miles of terraces. Seventeen contracts remain to be completed.

E. Water Resources (Land Treatment) Cost-Share Program

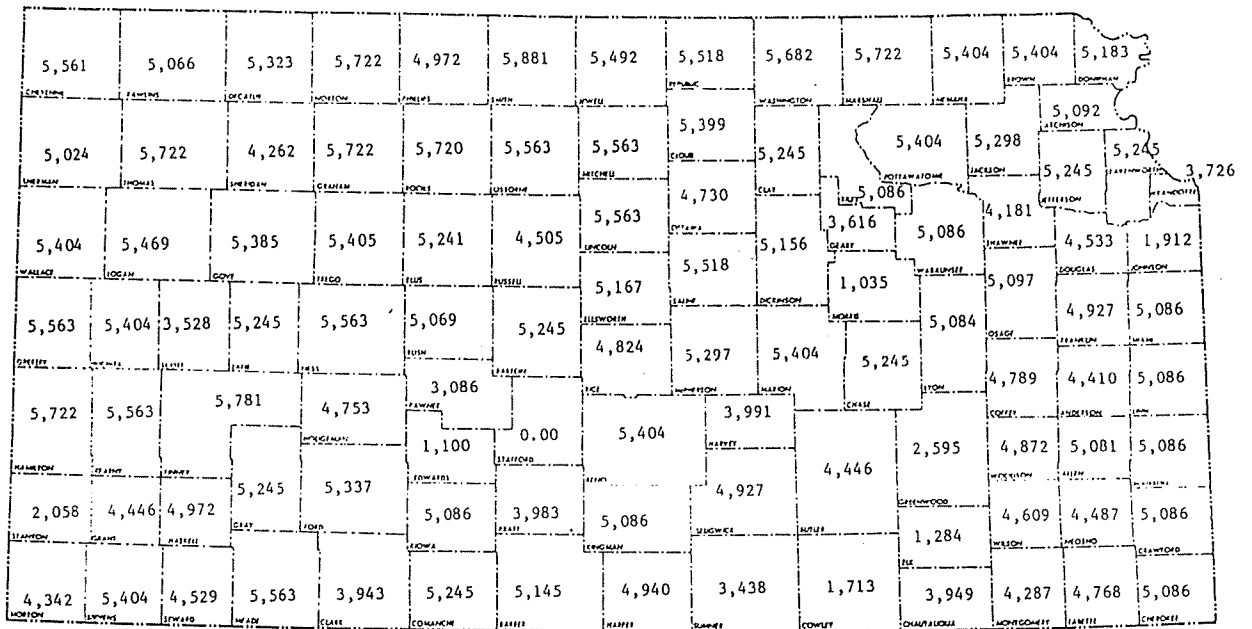
\$499,456

This program provides funds on a cost-sharing basis to assist landowners in the construction of enduring water resources conservation projects. These projects, not a part of normal project farming operations, are in the public interest for the protection and enhancement of the water resources. Construction costs of these practices exceed financial benefits accruing to the landowners.

Funds for the program are administered through all 105 conservation districts based upon water quality, water quantity and district size. Each conservation district develops its program from among state approved practices, and each determines priorities for granting cost-share assistance. However, the state establishes priority areas which are identified in the State Water Plan. FY 1990 State Water Plan funds

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were spent in each county as indicated on the map. The specified projects funded in each county are available from the State Conservation Commission.

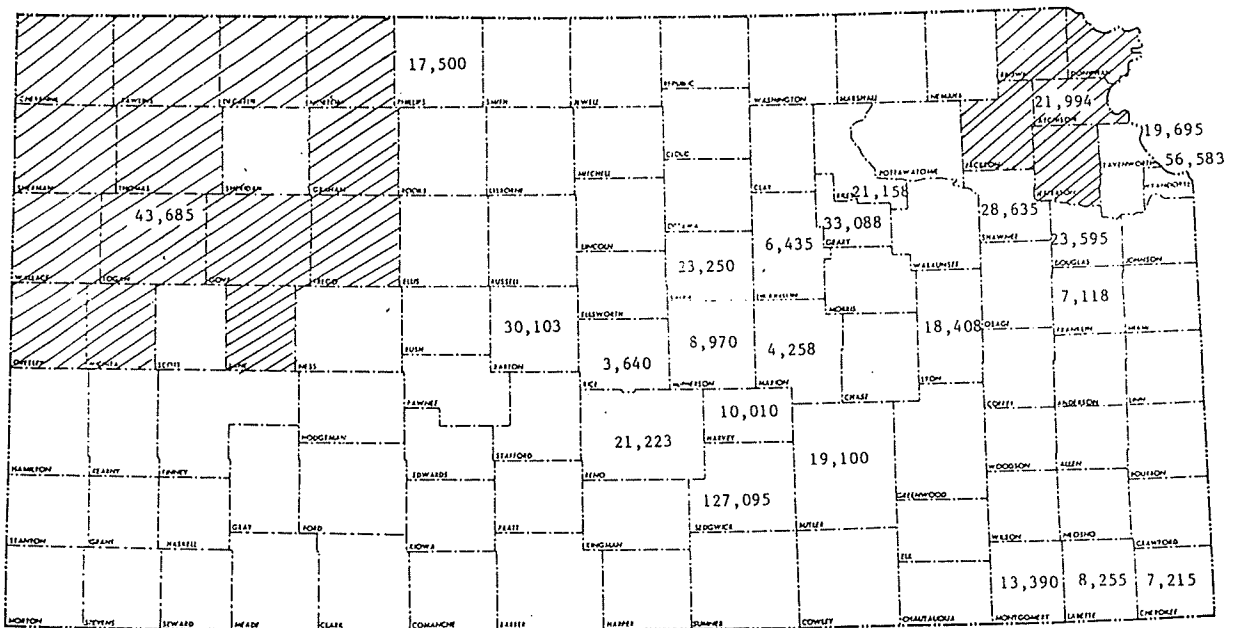


3. Kansas Department of Health and Environment

A. Local Environmental Protection Grants

\$574,403

This program provides grants to local units of government for water quality protection at the local level. All counties are eligible for \$7,000 or \$.55 per capita, up to \$125,000 in base grants. Counties which applied and received grants in FY 1990 are as follows:



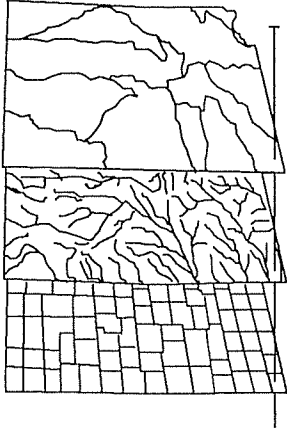
B. Contamination Remediation \$7,263

The objective of this program is to mitigate environmental damage at sites for which there is no known responsible party. For FY 90, \$7,263 was spent from the State Water Plan Fund for a preliminary site investigation of the Smith/Wasko Saltwater Site in Hodgeman County.

C. Non-Point Source Pollution \$24,016

The objective of this program is to maintain and improve environmental quality through the control of general sources of pollution. For FY 90 funds were spent to provide technical assistance for these program activities.

Total FY 1990 State Water Plan Fund Expenditures \$2,118,154



STATE OF KANSAS

Geographic Information Systems Technology Management Program

FY 1992 Annual Implementation Plan

January 1991

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Attachment 3

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SECTION 1

Strategic Management Plan Overview

Figure 1 presents an overview of the five-year Strategic Management Plan adopted by the GIS Policy Board. The plan identifies four parallel tracks:

Track One:	Database
Track Two:	Services
Track Three:	Technology Transfer
Track Four:	Management

The Database track will develop a core database of geographic information, encourage development of thematic databases built on the core database foundation, and make the core and thematic databases available to the GIS community in Kansas state government.

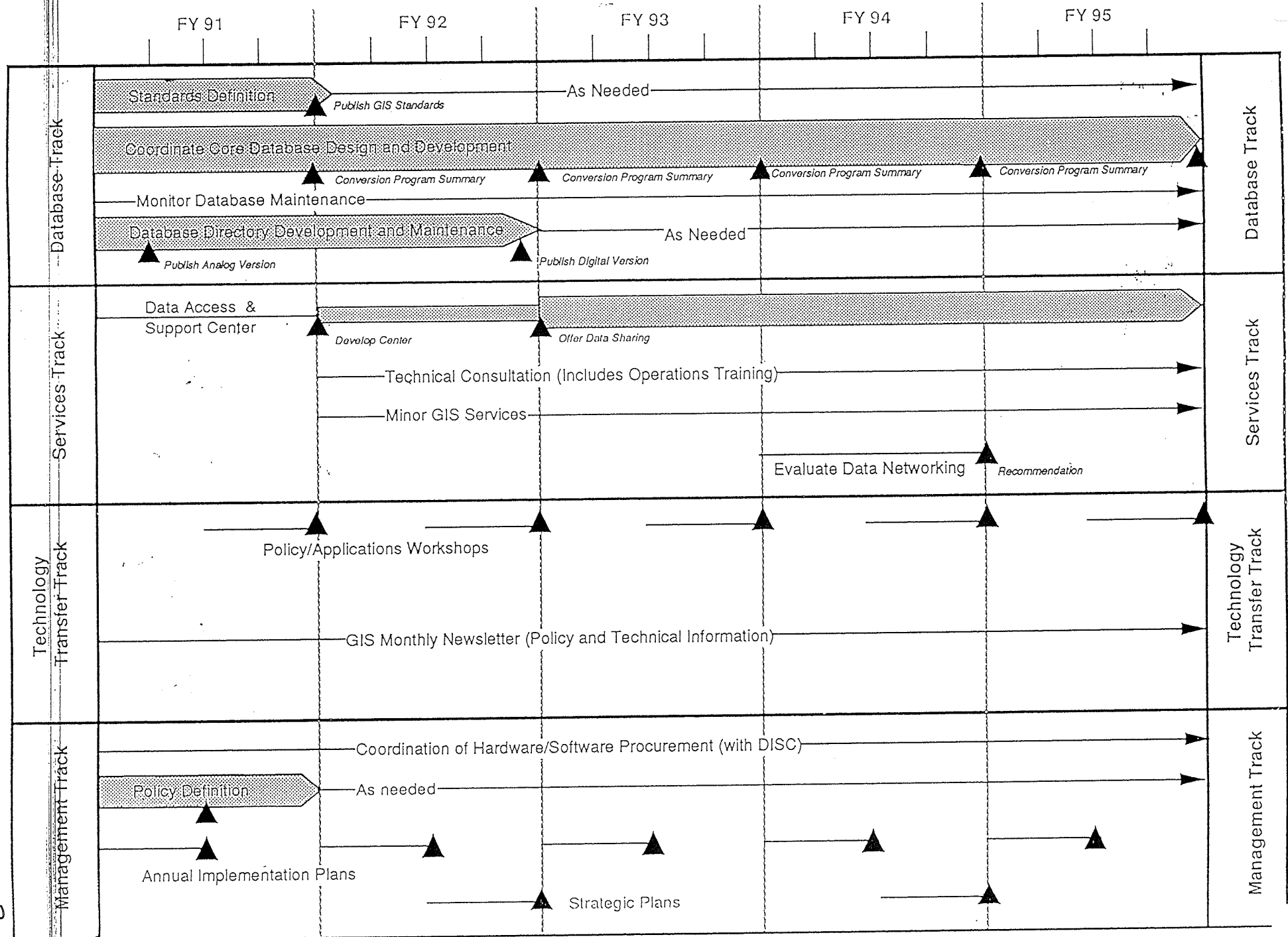
The Services track will encourage use of GIS technology and geographic data resources in state government by providing practical support in the form of GIS-related services.

The Technology Transfer track will inform user agencies and state government at large about the potential and capabilities of GIS technology in Kansas state government.

The Management track will assure continuity of GIS planning and coordination.

The FY 1992 program tasks and schedules are organized according to the four tracks described above. This initial annual implementation plan of the GIS Technology Management Program includes an eighteen month period from January 1, 1991 to June 30, 1992.

FIGURE 1
STRATEGIC GIS MANAGEMENT PLAN



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**SECTION 2
FY 1992 PROGRAM**

Track One: Database

TASK SERIES A: DATABASE STANDARDS

This task series will provide for further evaluation and revision of data standards adopted by the GIS Technical Advisory Committee (TAC).

TASK 1: Test Data Exchange Formats. The TAC Standards subcommittee will monitor and test exchange formats including the proposed federal Spatial Data Transfer Standard (SDTS).

TASK 2: Evaluate Database Development Standards. The TAC Standard subcommittee will evaluate database development standards following use of the standards on database development projects.

TASK 3: Revise TAC Standards. The TAC Standards subcommittee will analyze and recommend revisions to the TAC standards, as needed. These standards will be reviewed and approved by the TAC and the Policy Board prior to publication.

TASK 4: Publish Additional Standards. The TAC will publish new and revised standards approved by the Policy Board.

TASK 5: Distribute Revised Standards. The TAC will distribute revised standards to state, local and federal agencies in Kansas involved in GIS-related database development projects.

TASK SERIES B: CORE DATABASE DESIGN AND DEVELOPMENT

This series continues efforts for core database building and data acquisition.

TASK 1: Monitor Current Projects. The TAC will monitor database development projects approved by the Board. These projects include:

Contract Number	Project Description		Contractor	Contract Period
91-13	Soils		KSU	11/30/90-08/15/91
91-14	Land Cover		KARS	11/30/90-11/29/91
91-15	Land Grid Base		KGS	11/30/90-11/29/91
	Surface Geology			
	Administrative Bnds			
91-16	Rural Water Dist. Bnds		KWO	11/30/90-11/29/91
91-17	Water Files		KDHE	11/30/90-11/15/92
91-18	100k Hydrography DLGs		USGS-NMD	12/01/90-12/31/91
4040915	TIGER Database		*	-----

* A private vendor was contracted by the Legislature for database development work. Policy Board funds were contributed to this project through mutual agreement of the Board and Legislature.

TASK 2: Acquire Additional Data. The TAC will oversee the acquisition of data to be added to the core database in FY 1991. These data will be acquired through agreements and/or purchase with FY 1991 funds and will be available for distribution to agencies upon request. Datasets include:

Agency	Dataset
KGS	Kansas Cartographic Database
KDOT	Transportation/Utilities Layer
	Hydrography DLGs
USGS-WRD	Selected GeoData Files
	EPA River Reach I Files
USGS-NMD	GeoData Files
EPA	River Reach III Files
USDA SCS	Kansas Hydrologic Unit Boundaries

TASK 3: Initiate and Monitor FY 1992 Contracts. The TAC will negotiate contracts for priority projects to be funded in FY 1992 for core database building. Projects to be funded include:

Project Description	Agency	Estimated FY 1992 Cost	Estimated Remaining Cost
Soils-year two of project	KSU	\$ 86,509	\$295,157
Land Cover-completion of project	KARS	\$ 73,445	\$ 0
100k Hypsography DLGs JFA	USGS-NMD	\$ 50,000	\$ 0
Land Base	*	\$230,000	\$ *
100k Geology	KGS	\$ 36,000	\$ 69,000
Data Conversion/Translation Services	DASC	\$ 24,046	

* The GIS TAC will evaluate alternative development strategies for this project.

TASK SERIES C: DATABASE MAINTENANCE

This series will address maintenance and updating of core database elements and thematic data layers by custodial agencies.

TASK 1: Negotiate Custodial Agreements. The TAC will develop custodial agreements with appropriate agencies for datasets listed in Task Series B.

TASK 2: Monitor Maintenance Activity. The Data Access and Support Center (DASC) will report quarterly to the GIS TAC on updating of datasets as called for in agencies' custodial agreements.

TASK SERIES D: GIS DATABASE DIRECTORY

This series provides for the maintenance of the *Directory of Geographic Information Systems and Data Sources* published by the GIS TAC in April 1990.

TASK 1: Revise and Update Current Directory. The TAC Database Inventory/Acquisition subcommittee will revise and update the current directory as needed.

TASK 2: Publish Updated Directory. The TAC will publish an updated hardcopy version by the end of FY 1991. A digital version will be developed and made available to agencies by the end of FY 1992.

Track Two: Services

TASK SERIES A: DATA ACCESS AND SUPPORT CENTER (DASC) SERVICES

This series will establish DASC services to provide a central repository for core GIS database elements and selected thematic data files.

- TASK 1:** Develop Work Plan for the DASC. The TAC will prepare an initial work plan for the DASC. The plan will delineate necessary services and products related to the following areas: (1) core database development and administration, (2) GIS consultation and operational training, and (3) other GIS services and products to be provided by the DASC.
- TASK 2:** Acquire Interim DASC Services. The GIS Policy Board will negotiate an agreement with the Kansas Geological Survey to provide for interim DASC services through FY 1991.
- TASK 3:** Negotiate Contract and Initiate Center Development. The GIS Policy Board will enter into a contract with the Kansas Geological Survey to establish and operate a Data Access and Support Center in Lawrence. Funding required for the initial year of operation is \$120,880.

Track Three: Technology Transfer

TASK SERIES A: GIS SEMINAR

This task series will provide a forum for disseminating information about Board policies and GIS assistance available within state government.

- TASK 1:** Coordinate with GIS Consortium. Board staff will attend planning meetings of the Mid-America GIS Consortium and assist with efforts to present a six-state GIS conference in May, 1992.
- TASK 2:** Develop seminar. Board staff and applicable TAC members will design a seminar that meets Board and TAC objectives and is consistent with GIS conference objectives.
- TASK 3:** Conduct seminar. Applicable TAC members and Board members will present the seminar in conjunction with the GIS conference.

TASK SERIES B: GIS NEWSLETTER

This task series will provide a regular means of communicating with state agencies and other interested parties about subjects of particular interest to the GIS community.

- TASK 1:** Appoint TAC subcommittee. The TAC will select a newsletter subcommittee to evaluate the present KANGIS newsletter and make appropriate recommendations to the TAC.
- TASK 2:** Determine format and distribution. The TAC newsletter subcommittee will analyze newsletter objectives and recipient needs; and make recommendations to the TAC about format, contents and scope of distribution.
- TASK 3:** Publish newsletter. Board staff, with assistance from other contributors, will publish and distribute a quarterly KANGIS newsletter and will maintain the newsletter mailing list.

Track Four: Management

TASK SERIES A: BOARD POLICIES

This task series will establish the process whereby the Board establishes various GIS technology management policies.

- TASK 1:** Hold bimonthly meetings. The Board will have regularly-scheduled bimonthly meetings, with additional meetings at the chairperson's call.
- TASK 2:** Identify policy issues. The Board, with assistance from the TAC, will identify GIS issues to be addressed.
- TASK 3:** Examine access issues. The Board data access subcommittee will hold meetings, receive briefings from interested and affected parties, and prepare an issue paper on this subject.
- TASK 4:** Adopt access policies. The Board will develop appropriate data access policies, based on subcommittee report.
- TASK 5:** Update Board Policy and Procedures Manual. Board staff will maintain and distribute updates to the Policy and Procedures Manual.

TASK SERIES B: HARDWARE/SOFTWARE PROCUREMENT

This task series will establish the process whereby the Board and TAC communicate and interact with DISC and the GIS user agencies for hardware and software acquisitions.

- TASK 1:** Coordinate with DISC on acquisitions. The TAC will review applicable approval requests for GIS acquisitions and make recommendations to DISC.
- TASK 2:** Develop guidelines for agencies. The TAC will develop, maintain and disseminate appropriate GIS technical guidelines for user agencies.
- TASK 3:** Implement/monitor state purchase agreements. Board staff will work with appropriate vendors to establish state volume purchase agreements for GIS products.

TASK SERIES C: ANNUAL IMPLEMENTATION PLAN (AIP)

This task services will provide for the development and implementation of the GIS Technology Management Program on an annual basis.

- TASK 1:** Establish full time GIS Manager position. The GIS Policy Board will hire a GIS Manager in FY 1992 to manage the implementation of the GIS Technology Management Program. Amount of funds requested is \$55,553 (includes salary, equipment and associated expenses).
- TASK 2:** Conduct agency budget reviews. Board staff will solicit budget information from member agencies and report to the Board.
- TASK 3:** Determine Board budget needs. Board staff and TAC will determine interagency budget needs and develop FY 1993 priorities.
- TASK 4:** Prepare AIP. Board staff will work with the TAC and Board Planning Subcommittees to develop an AIP for review and approval by the full TAC and Board.
- TASK 5:** Submit FY 1993 AIP to Governor's office. The AIP will be submitted to the Governor to support Board and agencies' budget requests.

TASK SERIES D: STRATEGIC MANAGEMENT PLAN

This task series provides for the updating of the Strategic Management Plan for GIS Technology on a biennial basis.

- TASK 1:** Update Strategic Management Plan. The TAC and Board Planning subcommittees will evaluate the Strategic Management Plan and make recommendations to the Board for the FY 1993-FY 1997 plan document.
- TASK 2:** Publish Updated Strategic Management Plan. Board staff will publish and distribute the plan, following approval of the Board, to appropriate entities.

**SECTION THREE
FY 1992 BUDGET SUMMARY**

GIS Policy Board

<u>Item</u>	<u>Amount</u>
Track One: Database	
Database Development	\$ 500,000
Track Two: Services	
Data Access and Support Center	\$ 120,880
Track Three: Technology Transfer	0
Track Four: Management	
GIS Manager	45,958
Other Expenses (Equipment, Travel)	<u>9,595</u>
TOTAL	\$ 676,433

NOTE: All of the GIS Policy Board FY 1992 budget requests are contained in the Kansas Water Office's proposed FY 1992 budget.

State GIS Policy Board Member Agencies

<u>Agency</u>	<u>FY 1992 GIS Budget Requests*</u>
Kansas Water Office	\$ 748,531**
Kansas Corporation Commission	175,000
Division of Water Resources	169,370
Department of Wildlife and Parks	104,025
Department of Health and Environment	83,722
Kansas Biological Survey	158,244
Kansas State University	63,567
Legislature	<u>150,096</u>
TOTAL	\$1,652,555

* Budgets reviewed by the GIS Policy Board in August 1990.

** Includes GIS Policy Board Budget (\$676,433) as described above.

FISCAL PROJECTIONS FOR GIS EXPENDITURES

Policy Board - GIS Budget Projections

FY 1993 - FY 1995

<u>Fiscal Year</u>	<u>Personnel</u>	<u>Database Development</u>	<u>Contract Services</u>	<u>Total</u>
1993	53,803	500,000	320,335	874,138
1994	56,494	300,000	360,960	717,454
1995	<u>59,318</u>	<u>300,000</u>	<u>311,643</u>	<u>670,961</u>
TOTAL	169,615	1,100,000	992,938	2,262,553

Policy Board Member Agencies - GIS Budget Projections

FY 1993 - FY 1995

<u>Fiscal Year</u>	<u>Personnel</u>	<u>Operating Expenses</u>	<u>Database Development</u>	<u>Total</u>
1993	456,532	420,903	1,252,000	2,129,435
1994	473,852	278,458	7,000	759,310
1995	<u>491,946</u>	<u>250,275</u>	<u>8,000</u>	<u>750,221</u>
TOTAL	1,422,330	949,636	1,267,000	3,638,966

TOTAL (GIS Policy Board and Member Agencies) = \$5,901,519

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FY 1992 Geographic Information Systems Funding

	Agency Request				Budget Recommendation			
	SGF	Water Plan Fund	Other Funds	Total Funding	SGF	Water Plan Fund	Other Funds	Total Funding
Kansas Water Office								
GIS Administrator	127,651	--	--	127,651	--	--	--	--
Data Access Center	--	120,880	--	120,880	--	120,880	--	120,880
Database Development	--	500,000	--	500,000	--	500,000	--	500,000
Corporation Commission								
Mapping Equipment and Software	--	--	175,000	175,000	--	--	175,000	175,000
Division of Water Resources								
Water Rights Info. System	169,370	--	--	169,370	--	--	--	--
Wildlife and Parks								
Land Use Database Development	--	--	108,930	108,930	--	--	108,930	108,930
Health and Environment								
ARC/INFO System Dev.	83,722	--	--	83,722	--	--	--	--
Kansas Biological Survey								
Project Development	158,244	--	--	158,244	--	--	--	--
Kansas State University								
Soils Survey	63,567	--	--	63,567	--	--	--	--
Kansas Legislature								
Redistricting System	96,761	--	--	96,761	96,761	--	--	96,761
Total	699,315	620,880	283,930	1,604,125	96,761	620,880	283,930	1,001,571

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