			Date	
MINUTES OF THESenate	COMMITTEE ON	Governmental	Organization	
The meeting was called to order by	Senator	Vidricksen Chairperson		at
_1:17	March 21	, 19 <u>84</u> ir	n room <u>531N</u> of the Capito	l.
All members were present except:				
Senator Francisco Senator Gaines	Senator Roitz			
Committee staff present:				

Approved ___

Conferees appearing before the committee:

Bruce Kinzie - Revisor Julian Efird - Research

Senator Wint Winter
Ralph Turner - KCOA
Hattie Norman - SAC-SHL
Bernice Tyler KSHL
Dr. Edard Martinko - KARS Program
Don Jacka - Ks. State Board of Agriculture
Barbara Duncan - Department of Administration

The Chairman called the meeting to order.

Senator Winter addressed the Committee on behalf of SCR 1662 explaining why he felt it was important that this resolution be passed. This SCR would encourage the Governor and other appointing authorities to appoint persons 55 years of age or older to state boards and commissions. Al Bramble presented testimony in support of this Resolution (Exhibit A) as did Ralph Turner (Exhibit B) explaining that the knowledge of those over 55 was very valuable to the state in as much as they have much to offer in solving some of the problems because of their years of experience. Hattie Norman testified in support of the Resolution stating that it doesn't cost the state any money and they need qualified individuals on state boards and commissions. Bernice Tyler also urged passage of this SCR.

Dr. Edward Martinko appeared before the Committee in support of HB 2670 which would establish the Kansas commission on applied remote sensing. He explained that remote sensing was the detecting of information without direct contact. Dr. Martinko showed photographs and explained how the computer worked. He recommended that the Kansas Applied Remote Sensing Program be maintained; that the program should be provided funding; that the fee fund be continued; and that a Commission on Applied Remote Sensing be established. (Exhibit C)

Don Jacka spoke in support of the Advisory Committee on Anhydrous Ammonia and the Pesticide Advisory Board as contained in HB 2619. He stated that he understood the need for streamlining of state government but felt these two Advisory Boards would allow them a pulse. He also mentioned that this Board did not present an extreme cost and recommended that they be continued in existence.

Barbara Duncan addressed the Committee regarding the State Telecommunications Advisory Committee contained in HB 2619. She explained that no meetings were ever held, no current members appointed and no funds budgeted in support of this committee. Therefore, the Secretary of Administration supports the recommendation that the State Telecommunications Advisory Committee be abolished according to House Bill 2619. (Exhibit D)

A motion was made by Senator Gaar to recommend SCR 1662 favorable for passage. This was seconded by Senator Mulich. Motion carried.

Senator Gaar then made a motion to recommend HB 2670 favorable for passage. This was seconded by Senator Mulich. Motion carried.

Unless specifically noted, the individual remarks recorded herein have not been transcribed verbatim. Individual remarks as reported herein have not been submitted to the individuals appearing before the committee for editing or corrections.

Page _1_ of ____

CONTINUATION SHEET

MINUTES OF THE	Senate	_ COMMITTEE ON _	Governmental (Organization	······
room <u>531N</u> , Stateh	ouse, at1:	17 xxx/p.m. on	March	21	

Senator Johnston made a motion to amend HB 2654 to move the information clearing house to the Kansas Department of Economic Development. Senator Mulich seconded this. Motion carried.

A motion was then made by Senator Mulich to recommend HB 2654 favorable for passage as amended. A seconded was made by Senator Johnston and the motion carried.

The meeting was adjourned by the Chairman at 2:23 p.m.

GUEST LIST

COMMITTEE:	<u>Senate Goverr</u>	nmental Organizati	ion DATE: 1/av. 2/
NAME		ADDRESS	COMPANY/ORGANIZATION
Valle Ho	man	30829/1	SAC-SHL
Raepa De	unic.	S-308WindrewPl	og Parry - KCOA
Jully h. C	D'Neuc	2016W37 Tu	
DON JACKA		TOPEKA	Ks. State Boardef Agreenthus
JON Flin	JT	TOPEKA	Rs. State Brand of Agricum
Al Bran	ulila	1924 La. Lawn	rene Ks SHL JAARP
Ed MART,	NHO	University of Kan	sas Lawrence, KS. KARS Program
Loyola Ca	aron	Univ. of Kansas,	Lawrence KARS Program
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	W. C.		
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TESTIMONY IN SUPPORT OF SCR 1662 by Al Bramble

I am Al Bramble of Lawrence, long active in issues and concerns affecting the elderly of our State. I am a former director of our State Agency on Aging, a former president of the Kansas Citizens Council on Aging, currently a member of the State Legislative Committee of AARP, and president of the organizing committee for the Silver Haired Legislature. And that Legislature, comprised of 125 delegates from every county in our State, passed, by a margin of 120 to 3, a bill that is incorporated in Resolution #1662. I seek your support and passage of SCR 1642 for the following reasons:

For one, passage would encourage elderly to seek appointment and make themselves available to serve on appointive boards. It would say to them, "You are important and we want you involved." Such a message would communicate a sense of importance, of worthiness, which too often is lacking in the lives of the elderly. Without this sense too many of our older citizens have no reason to get out of bed so they resign from significant involvement in life and become problems to themselves and others rather than part of solutions in our common concerns.

Second, appointment of more elderly to boards and commissions would utilize a tremendous resource of wisdom and experience, making it available to the benefit of all our citizens. Experience plus ability is the source of wisdom. Who has had more experience than the elderly? And where is it needed more than in the conduct of State affairs that affect all our citizens?

Third, passage of SCR 1662 would be a positive response to the desires of our senior citizens (55+) who now number over 450,000 voting members of our State and who vote more consistently than any other age group. I for one do not believe that mere political

numbers should determine passager or non-passage. Rather it should be the carefully weighed factors of concern for the total welfare of our State. Still, in this case, I believe numbers and welfare are combined. So I urge your approval and support for SCR-1662.

It is a resolution that recommends, not demands or requires. It does not disrupt present membership of appointive boards, for it recommends action only when vacancies occur. It costs no additional tax dollars. But above all it recognizes and provides place for our increasing older population.

HEARING SENATE CONCURRENT RESOLUTION NO. 1662 MARCH 21, 1984

RALPH J. TURNER

MR. CHAIRMAN AMD MEMBERS OF THE COMMITTEE:

I AM RALPH TURNER FROM LAWRENCE. I AM THE DELEGATE TO THE KANSAS SILVER-HAIRED LEGISLATURE FROM DOUGLAS COUNTY. I AM ALSO A MEMBER OF THE KANSAS COALITION ON AGING AND HAVE BEEN WORKING IN AGENCIES ON A VOLUNTEER BASIS FOR OVER TEN (10) YEARS.

A RESOLUTION SIMILAR TO SENATE CONCURRENT RESOLUTION NO. 1662

PASSED THE SILVER HAIRED LEGISLATURE THAT MET THIS PAST OCTOBER.

THE RESOLUTION MAKES A VERY IMPORTANT STATEMENT, THAT TO ME JUSTIFIES

PASSING THIS RESOLUTION. THE STATEMENT IS: "WHEREAS, THE KNOWLEDGE

POSSESSED BY THESE PERSONS, 55 YEARS OF AGE OR OLDER, IS AN INVALUABLE

HUMAN RESOURCE WHICH IS CRITICALLY IMPORTANT TO THE WELFARE OF THE

STATE OF KANSAS AND THE OVERALL PUBLIC GOOD; AND WHEREAS, PERSONS 55

YEARS OF AGE OR OLDER WITH THEIR VARIED BACKGROUNDS AND EXPERIENCE HAVE

MUCH TO CONTRIBUTE IN OFFERING IDEAS AND SOLUTIONS TO THE MYRIAD OF

PROBLEMS FACING OUR SOCIETY TODAY. PERSONS 55 YEARS OF AGE OR

OLDER CONSTITUTE THE FASTEST GROWING SEGMENT OF THE POPULATION OF KANSAS.

KANSANS 55 YEARS AND OLDER (ACCORDING TO THE 1980 CENSUS)
NUMBER 532,228.

IT HAS BEEN SAID THAT ONE THING THAT WE ALL HAVE IN COMMON IS THAT WE ALL AGE, AGING GOES ON CONSTANTLY.

THERE IS A DIFFERENCE IN AGING AND BEING OLD. TO ADMIT BEING OLD IS TO ADMIT DEFEAT. OLD AGE IS DEFEAT ITSELF, AND THEREFORE SHOULD BE DENIED, FOUGHT OFF. THE LATE GEORGE HALAS, OWNER OF THE CHICAGO BEARS PROFESSIONAL FOOTBALL TEAM AT AGE 85 SAID, "DO I FEEL OLD, I DON'T KNOW WHAT OLD MEANS. THE ONLY THING I KNOW ABOUT THE WORD OLD IS HOW TO SPELL IT. I AM GETTING OLDER, YES, BUT I AM NOT OLD".

IN MANY SOCIETIES AGE IS SYNONMOUS WITH WISDOM. UNFORTUNATELY
THAT IS NOT NECESSARILY TRUE IN THIS COUNTRY.

RESEARCHERS CAN DEMONSTRATE THAT CERTAIN CRUCIAL AREAS OF HUMAN

INTELLIGENCE DO NOT DECLINE IN OLD AGE AMONG PEOPLE WHO ARE GENERALLY

HEALTH

THE NEW RESEARCH CHALLENGES BELIEFS LONG HELD BY SCIENTISTS AND
THE PUBLIC AND SUGGESTS THAT, AMONG PEOPLE WHO REMAIN PHYSICALLY AND
EMOTIONALLY HEALTH SOME OF THE MOST IMPORTANT FORMS OF INTELLECTUAL
GROWTH CAN CONTINUE WELL INTO THEIR 80s.

ANOTHER RESEARCHER ON AGING STATES: "THOSE WHO DON'T ACCEPT THE STEREOTYPE OF A HELPLESS OLD AGE, BUT INSTEAD FEEL THEY CAN GO AS WELL IN OLD AGE AS THEY HAVE AT OTHER TIMES IN THEIR LIVES, DON'T BECOME INEFFECTIVE BEFORE THEIR TIME".

A CITE THIS TO COUNTER THE ARGUMENT THAT IS SOME TIME MADE THAT INTELLIGENCE DECLINES WITH AGING.

I WOULD MAKE THIS SUGGESTION THAT 55 YEARS OF AGE AND OLDER BE ACCOMPANIED WITH THE NECESSARY QUALIFICATIONS OR BACKGROUND IN THE FIELD OR AREA THAT A PARTICULAR BOARD AND COMMISSION IS INVOLVED.

I HOPE THE COMMITTEE WILL REPORT RESOLUTION No. 1662 OUT FAVORABLY.

THANK YOU.

Report

of

Edward A. Martinko Chairperson, Kansas Interagency Task Force on Applied Remote Sensing

 $\qquad \qquad \text{to the} \\ \text{Senate Committee on Governmental Organization}$

concerning HB 2670

March 21, 1984

Chairman Vidricksen, members of the Committee. I am pleased to have this opportunity to testify on HB 2670, which would create a Kansas Commission on Applied Remote Sensing. I would like to address you today in my capacity as Chairperson of the Kansas Interagency Task Force on Applied Remote Sensing, a group of state agencies established by the 1982 Kansas Legislature (Senate Concurrent Resolution No. 1644) to evaluate ways in which remote sensing and geographic information systems technologies can be most efficiently and effectively maintained to serve the needs of the State of Kansas. Both remote sensing and geographic information systems rely heavily on use of computers and other high technologies.

Background

Prior to presenting my remarks on HB 2670, it is necessary to review pertinent factors which led to the development of this bill, resulting from work of the Kansas Interagency Task Force on Applied Remote Sensing. Membership on the Task Force included representatives of the major natural resources agencies in Kansas, groundwater management districts, county government, the Legislature and the Governor's Office. The Task Force was directed to evaluate ways in which remote sensing/geographic information systems technologies could best be utilized by Kansas agencies and policymakers, and to develop recommendations regarding access to these technologies through the Kansas Applied Remote Sensing (KARS) Program. The Task Force was further directed to present its findings to the Governor and the Kansas Legislature in December 1983.*

The KARS Program is a program of the University of Kansas founded specifically to assist Kansas agencies and others in evaluating and using remote sensing and related spatial data analysis techniques. In the past (1972-1983), funding for these efforts has been provided through grants from the National Aeronautics and Space Administration (NASA). For more than a

^{*}Final Report and Recommendations of the Kansas Interagency Task Force on Applied Remote Sensing. December 1983.

decade, NASA provided funds to the KARS Program to carry out free training, technology transfer and demonstration project activities in Kansas. Over 40 projects were conducted with agencies, firms and local units of government. These included, for example, an inventory of irrigated lands in southwestern Kansas, evaluation of potential pronghorn antelope release sites, assessment of rangeland conditions, inventory of prime agricultural lands, and assessment of soil erosion for the Soldier Creek watershed. More than 2,500 Kansans have participated in technology transfer activities (short courses, Governor's Conference on Applied Remote Sensing, presentations, KARS News-letter).

The Technologies

Remote sensing is the science of acquiring information about an object or area in the absence of physical contact with the entity of interest. Remote sensing instruments mounted in aircraft, satellites and the Space Shuttle can provide cost-effective, valuable and often unique information about the land and water resources of Kansas. Pictures taken from the Landsat satellite, for example, survey every acre of Kansas every 16 days. Such data can be processed by computers to produce maps of crops, water, cities and towns, grassland, forests and other features. This information can be used in almost unlimited ways. Counties may employ it for planning or for tax appraisal, state and federal agencies for water resource assessment, wildlife habitat evaluation, management of soil erosion, or cropland inventories.

Computer-based geographic information systems (GIS) are powerful tools for integrating and analyzing data obtained from such disparate sources as remote sensing, soils surveys, county land ownership maps, and water quality records. Geographic information systems facilitate the rapid, accurate evaluation of complex interrelationships among the many variables that bear on water resources, planning, agricultural and other issues. An especially useful feature of a geographic information system is the capability of producing composite maps developed from many sources of data.

Task Force Recommendations

After nearly two years of deliberations, the Task Force developed four recommendations concerning the value of remote sensing and geographic information systems technologies. These are as follows:

1. THE KANSAS APPLIED REMOTE SENSING (KARS) PROGRAM SHOULD BE MAINTAINED AT THE UNIVERSITY OF KANSAS.

The KARS Program has been nurtured by the University of Kansas for over 10 years and has been provided support, facilities and a line in the University's budget. KARS currently operates in a fashion similar to that of the Kansas Geological Survey, a mode which the Task Force strongly endorses. The KARS Program has assembled a skilled staff and established a well-equipped laboratory in Lawrence. The Program benefits greatly from having direct access to the facilities and staff of the University at large (e.g., faculty, libraries, computer center, Kansas Geological Survey, State Biological Survey of Kansas). It also is complemented by the University's internationally recognized Remote Sensing Laboratory (RSL), a research organization which develops new remote sensing technology, much of which will be of great use to Kansans in coming years. The KARS Program and RSL are housed together in the Space Technology Center and have a synergistic relationship.

The Task Force believes that institutionalization of the KARS Program within the University of Kansas, rather than in any other agency, will help ensure that services provided and data collected, analyzed and archived will be used fully and equitably by all potential users. The Task Force respectfully recommends that the KARS Program be maintained as a program of the University of Kansas Space Technology Center, and that all necessary steps be taken by the University, the Board of Regents, the Office of the Governor and the Legislature to sustain and enhance the Program as required to meet the needs of the State of Kansas.

2. THE KANSAS APPLIED REMOTE SENSING (KARS) PROGRAM SHOULD BE PROVIDED BASELINE FUNDING FROM GENERAL REVENUES IN THE AMOUNT OF \$117,000 FOR THE PERIOD OF JULY 1984 - JUNE 1985.

The Task Force believes that "baseline funding" from general revenues is required to enable long-term planning, provide continuity in KARS staff and programs and to support many products and services which are non-project related and, thus, cannot be charged to a single user agency. Baseline funding would provide:

- Retention of a skilled, experienced core staff,
- Staff support for the Commission on Applied Remote Sensing (see Recommendation 4 below),
- Maintenance of KARS equipment, aerial photography and Landsat imagery, library, computer system and software,
- Communications (e.g., Commission mailings, telephone, reports, <u>KARS</u> Newsletter),
- Consulting and information services for Kansas state and local agencies, the Legislature and Governor's Office,
- Assistance in project development, design and proposal preparation,
- Training and short courses, briefings and presentations for public agencies and professional groups and the Commission on Applied Remote Sensing,
- Travel in support of the above services, and
- Support of individual research or applications projects of statewide interest, dependent on level of baseline funding.
- 3. THREE MECHANISMS SHOULD BE AVAILABLE FOR FUNDING PROJECTS UNDERTAKEN BY THE KARS PROGRAM ON BEHALF OF STATE AGENCIES:
 - The fee fund should be continued so that agencies can transfer money directly to the KARS Program to accomplish projects of interest to individual agencies.

- Agencies could jointly propose projects that are of particular interest to more than one agency, but are not necessarily of general, all-encompassing need.
- Issues of statewide/general importance and/or of importance to the Governor or Legislature could be addressed by bills submitted by interested legislators; funds would not be drawn from any one agency's budget.

The Task Force respectfully requests that the Office of the Governor and the Legislature consider means by which agencies that propose to use high technologies (e.g., remote sensing/geographic information systems), to carry out their mandates, charges and responsibilities in a better, more cost-effective or more timely manner may be encouraged and rewarded. The Task Force recommends that interagency cooperative efforts receive special encouragement and consideration.

The Task Force has identified a number of issues of statewide importance and of interest to many agencies to which the KARS Program can make unique and substantial contributions. Such issues include water resources management, property reappraisal and soil erosion assessment. The Task Force recommends that projects of statewide importance be defined through appropriate legislation and be funded through general revenues rather than through the budget of any one agency.

4. A COMMISSION ON APPLIED REMOTE SENSING SHOULD BE ESTABLISHED BY STATUTE TO CONTINUE THE WORK OF THE KANSAS INTERAGENCY TASK FORCE ON APPLIED REMOTE SENSING. THERE SHOULD BE AN ANNUAL REVIEW OF THE COMMISSION AND THE KARS PROGRAM BY THE LEGISLATURE, AND A GENERAL REVIEW IN JANUARY 1987, WITH CONSIDERATION GIVEN TO DESIGNATING THE KARS PROGRAM AN OPERATIONAL PROGRAM AND/OR PROVIDING IT AGENCY STATUS.

The Kansas Interagency Task Force on Applied Remote Sensing has established that the high technologies of remote sensing and geographic information systems are of immediate value to the State of Kansas, has proposed means by which the State may make better use of these technolo-

gies, and has provided a unique opportunity for representatives of the Governor, the Legislature, Kansas agencies and others (federal agencies, counties) to share concerns, identify mutual interests, and work cooperatively to achieve objectives of common interest. It is clear that there would be great value in having a permanent body which could continue and expand upon the work of the Task Force.

These recommendations were unanimously supported by the members of the Task Force, and have been endorsed by many of the agency heads. HB 2670 was submitted as a direct result of these recommendations.

HB 2670

Throughout the past two years, it became apparent to all involved that the Kansas Interagency Task Force on Applied Remote Sensing served a valuable and unique function in Kansas state government over and above its assigned mission of evaluating remote sensing and geographic information systems technologies and access to these techniques through the KARS Program. The Task Force has provided a forum in which agencies may regularly share ideas, identify common interests and define areas and means of cooperation. Remote sensing and geographic information systems technologies are powerful tools that encourage and facilitate cooperation, coordination and cost-sharing. The Task Force has clearly served a useful purpose in promoting such cooperative work, and in working to ensure that unnecessary duplication of effort is avoided.

Task Force members concurred that some form of permanent interagency commission or council should be established to aggressively evaluate and promote the use of remote sensing/geographic information systems technologies wherever warranted, ensure that agencies cooperated and coordinated activities so as to prevent unnecessary duplication of effort, and assist all Kansans in evaluating and using new techniques as they are developed.

The Commission would continue and enhance the work of the Task Force by (.1) providing a mechanism to coordinate ongoing and planned data collection

and analysis efforts; (2) making existing information more accessible, and identifying gaps in current knowledge; (3) facilitating savings in time and costs in gathering information; (4) providing the State of Kansas a unique status in the eyes of federal data-producing agencies, making the state an attractive place for pilot projects on new methods of data collection and dissemination; and (5) making available new technologies in spatial modelling, remote sensing and other areas where advances are rapidly taking place.

Membership on the commission would be essentially the same as it was on its predecessor, the Kansas Interagency Task Force, with the addition of the Kansas Department of Transportation. Federal and local agencies and private firms would also be encouraged to participate on the Commission.

The duties of the Commission, as outlined in HB 2670, would be to:

- (a) Assist users in assessing the capabilities, costs and alternatives for employing remote sensing or related geographic information systems technologies;
- (b) Serve as a forum for interagency communication, coordination and cooperation for the use of remote sensing and geographic information systems technologies;
- (c) Advise the KARS Program regarding the data and informational needs of Commission members:
- (d) Disseminate information regarding new developments and capabilities in high technologies pertaining to remote sensing and geographic information systems; and
- (e) Prepare and present annual reports to the Governor and Legislature, and recommend funding levels for the KARS Program and the Commission in the subsequent fiscal year; and make recommendations to each regular session of the Legislature and to the Governor concerning necessary or advisable legislation relating to issues of statewide importance concerning remote sensing or geographic information systems technologies.

The Commission would prepare and present to the Governor and Legislature on or before May 31, 1986, a report and any recommendations regarding the need for an integrated, comprehensive Kansas resources information center.

SERVICES OF THE KARS PROGRAM

The KARS Program provides the following services:

Interpretation of remote sensing data in support of land use/land cover, environmental, planning, agricultural and natural resources inventories and analyses;

Research in the analysis of remote sensing data and in applications of remote sensing/geographic information systems technologies;

Geocoding, geographic information system design and production; statistical analysis, design of sampling surveys, areal statistical data summaries;

Analysis of trends, projections, spatial modeling, monitoring of change on a seasonal (e.g., range burning, harvesting) or annual basis (e.g., land use, wildlife habitat);

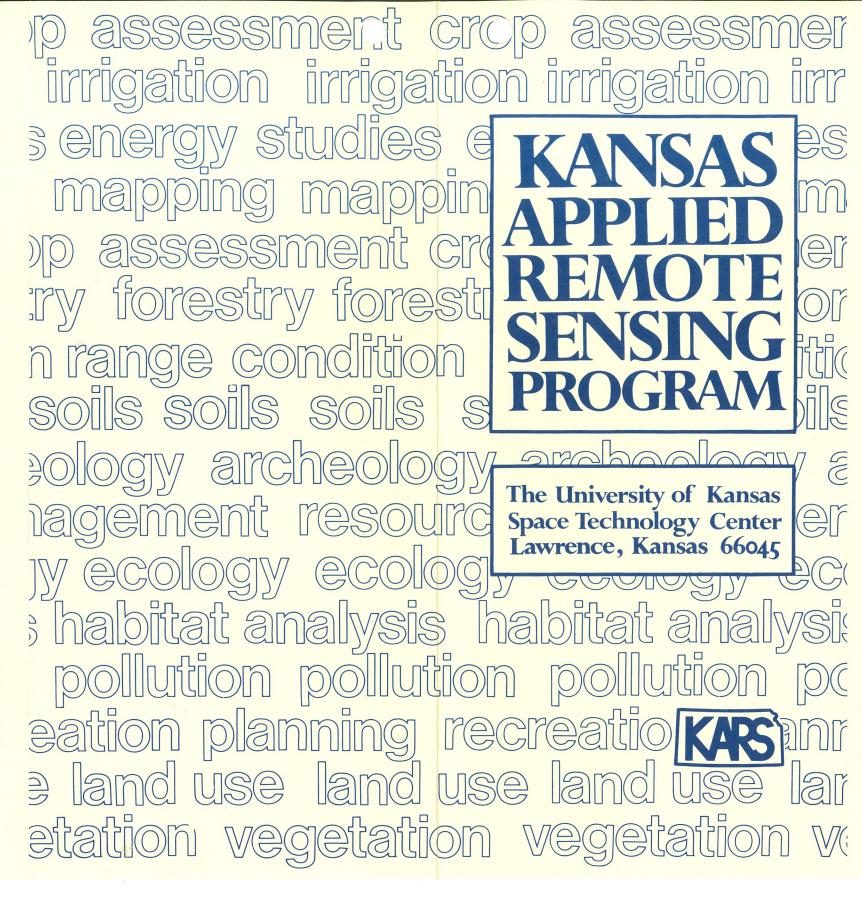
Map production using state-of-theart cartographic techniques including negative scribing, color separation and computer graphics;

Field investigation either in support of remote sensing data collection or independently designed to meet specific agency or client requirements;

Aerial photography in support of KARS research and applications projects;

Location and acquisition of remote sensing data; flight mission design;

Instruction in remote sensing techniques, interpretation and applications; short courses, workshops, seminars; technology transfer.





Land use/land cover map of Lawrence, Kansas and vicinity prepared by computer processing of Landsat 4 Thematic Mapper digital data.

MAJOR KARS PROGRAM RESEARCH AND APPLICATION AREAS

Geographic information system design, construction and application

Integrated natural resources inventories

Land use/land cover inventory, change detection and mapping

Irrigated lands inventories

Wildlife habitat evaluation

Strip mined lands assessment

Crop and rangeland evaluation

Thematic mapping

Technology transfer/remote sensing education

FACILITIES

KARS Program offices and laboratories are located in the University of Kansas Space Technology Center. The Program has complete facilities for processing and interpreting remote sensing data in both image and digital formats, state-of-the-art cartographic production, statistical analysis and geographic data processing. Graphic arts, photographic and other support services are provided within the Space Technology Center.

The KARS Program's Image Interpretation Laboratory is furnished with a complete range of equipment for viewing and analyzing imagery, and for transferring image data to base maps of various scales. Included are a Bausch and Lomb Zoom Transfer Scope, an Itek Color Additive Viewer,



a Variscan Rear Projection Viewer, five Richards Light Tables with Bausch and Lomb Zoom 240 stereoscopes, a Saltzman Reducing/Enlarging Projector, a MacBeth Color Spot Densitometer and a complete assemblage of other visual image interpretation aids.

Analysis of digital remote sensing data, digitizing and other computer-assisted data processing operations are supported by facilities of the KARS Digital Data Analysis Laboratory. KARS' digital data analysis system is based upon a DEC PDP 11/23 computer. Support equipment includes an 80-megabyte Control Data Corporation disc drive, a Kennedy 9100 tape drive, a Sky Computers SKYMNK array processor, and a Versatec 8222-F 22-inch electrostatic

printer/plotter. Color video display functions are provided by a Terak 8510/a-8600HDX microcomputer having a 19-inch RGB monitor capable of 640 x 480-pixel resolution. Digitizing is accomplished with an Altek AC90SM microprocessor-controlled digitizer having a 42 x 60-inch backlighted digitizing tablet.

KARS' computer system supports a comprehensive array of software for interactive digital image processing and classification, geographic information system operations, statistical analysis and computer mapping. Remote terminals also enable KARS staff to draw upon the substantial



facilities of the University of Kansas Honeywell Level 66 Computer System.

Aerial photography in support of KARS projects is acquired from a Cessna 180 Skywagon accessible to KARS staff. Both a multispectral cluster of four Hasselblad 500EL 70mmformat cameras and a Fairchild nineinch format cartographic camera are available for photographic missions.

Custom designed cartographic and graphic products are prepared by KARS staff using negative scribing and photo-mechanical techniques. Production of color graphics and color separations are standard procedures. Printing services are available. KARS staff also have access to Tektronix computer graphics systems, computer mapping software, and both flatbed and drum plotters.

THE UNIVERSITY OF KANSAS APPLIED REMOTE SENSING (KARS) PROGRAM

The University of Kansas Applied Remote Sensing (KARS) Program was established by the National Aeronautics and Space Administration (NASA) in 1972 to conduct applied research on techniques which will enable public agencies and private firms to better utilize available satellite and airborne remote sensing systems. The KARS Program is an applied research program of the University of Kansas Space Technology Center. The Space Technology Center was established in 1972 by NASA and the State of Kansas to enhance research and education in spacerelated science and technology through multi-disciplinary research efforts. The KARS staff is comprised of specialists having backgrounds in ecology, geography, forestry, wildlife biology, engineering, cartography, computer science, environmental studies and natural resources management.

Projects undertaken by the KARS Program with local, regional, state and federal agencies and private industry are designed to identify and enhance the manner in which remote sensing technology can aid in decision-making, policy formulation, planning and in meeting other needs and responsibilities. The KARS Program and Kansas agencies have established the Kansas Interagency Task Force on Applied Remote Sensing to foster the utilization of remote sensing and related spatial data analysis techniques by Kansas state government. All KARS services are provided at large to public agencies and private firms, both within and outside of Kansas, on a contractual basis.

The KARS Program has provided assistance and services to more than forty agencies in Kansas, Missouri and other states in the Great Plains/Rocky Mountain region. Contractual applied remote sensing projects have been carried out for the NASA Earth Resources Laboratory, NASA Ames Research Center, U.S. Fish and Wildlife Service, U.S. Office of Surface Mining, USDA/Soil Conservation Service, U.S. Environmental Protection Agency, U.S. National Park Service, Kansas Fish and Game Commission, Missouri River Basin Commission, Mid-America Regional Council, and Farmland Industries, Inc. Projects have involved land use/land cover inventory, monitoring land use change, wildlife habitat evaluation, mapping of irrigated lands, surface mined lands inventory, recreational area planning, soil conservation needs assessment, aquatic vegetation mapping, rangeland condition evaluation, urban area analysis and education and training. In addition, KARS staff have provided remote sensing consulting services in India, Mexico and several states.

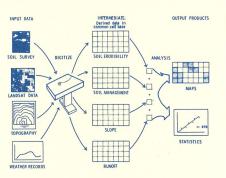
For additional information contact:

Kansas Applied Remote Sensing (KARS) Program University of Kansas Space Technology Center 2291 Irving Hill Drive Lawrence, Kansas 66045-2969

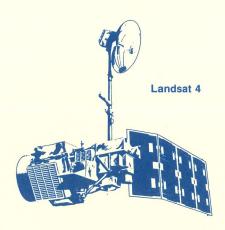
Telephone: 913/864-4775 KANS-A-N 564-4775

KARS NEWSLETTER

The KARS Program publishes the quarterly KARS NEWSLETTER which is designed to foster the application of remote sensing data and to provide a forum for communication on remote sensing-related matters. Current circulation is approximately 2,000. Readers include employees of local, state, regional and federal agencies, research centers, colleges and universities, and private firms. Most readers reside in the Midwest and Western U.S., but Newsletters are mailed throughout the United States and to several other nations. Subscriptions are available upon request.



Computer-based *Geographic Information Systems* aid in decision-making by facilitating the analysis of data acquired from many different sources.



REMOTE SENSING

Remote Sensing is the science of acquiring information about an object or area in the absence of physical contact with the entity of interest. Remote sensing systems, such as cameras, scanners and radars, mounted aboard aircraft and spacecraft are increasingly being used to inventory, evaluate and monitor the extent and condition of phenomena such as land use, water resources, crop and rangeland, conservation practices and urbanization. The Kansas Applied Remote Sensing (KARS) Program was established to assist public agencies and private firms concerned with natural resources management, agriculture, regional planning and related issues in employing remote sensing technology. Data acquired by remote sensing, especially when used in concert with information obtained in traditional ways, can often enable such agencies and firms to make better, more rapid, and/or more cost effective decisions regarding problems with which they must deal.



FINAL REPORT AND RECOMMENDATIONS

OF THE

KANSAS INTERAGENCY TASK FORCE ON APPLIED REMOTE SENSING

Executive Summary

 $\begin{array}{c} \text{Submitted to} \\ \text{The Governor and the Kansas Legislature} \end{array}$

December 1983

Executive Summary

I. Introduction

The Kansas Applied Remote Sensing (KARS) Program was established in 1972 at the University of Kansas by the National Aeronautics and Space Administration (NASA). KARS was founded specifically to assist Kansas agencies and firms in evaluating and using remote sensing and related geographic information systems technologies. For 10 years NASA provided funds to the KARS Program to carry out free training, technology transfer and demonstration project activities in Kansas. In 1981, NASA decided that funds provided to state programs such as KARS would be re-directed from applications activities to basic research. The State of Kansas was provided a three-year period in which, if it wished, it could establish independent means for sustaining the operational applications, service and training functions provided by KARS to Kansas agencies.

In order to assess alternatives for greater and more operational utilization of remote sensing/geographic information systems technologies in the State of Kansas, representatives of several Kansas agencies and the KARS Program established an Interagency Task Force on Applied Remote Sensing in May 1981. The Task Force was formally recognized and provided a mission by the Kansas Legislature in April 1982. Senate Concurrent Resolution 1644 directed the Task Force to evaluate the ways the KARS Program could be most efficiently and effectively maintained.

The Task Force's Interim Report, A Program to Enhance the Utility of Remote Sensing and Related Technologies Within the Framework of a Kansas Resources Information Center, was submitted to the Governor and the Kansas Legislature in December 1982. In this, the final report of the Task Force, the issues addressed by the Task Force are reviewed, and recommendations regarding the need for remote sensing and related geographic information systems technologies in Kansas are presented.

II. Background

Remote sensing is the science of acquiring information about an object or area in the absence of physical contact with the entity of interest. Remote sensing systems, such as cameras, scanners and radars, are increasingly being used to inventory, evaluate and monitor the extent and condition of phenomena such as land use, water resources, crop and range-

land, conservation practices and urbanization. Computer-based *geo-graphic information systems* (GIS) are powerful tools for integrating and analyzing data obtained from such disparate sources as remote sensing, soils surveys, county land ownership maps, and water quality records.

The Kansas Applied Remote Sensing Program was established by the National Aeronautics and Space Administration to conduct applied research on techniques which will enable public agencies and private industry to better utilize satellite and airborne remote sensing systems. The KARS Program possesses a full range of remote sensing, mapping, geographic information system and related capabilities. The Program has been actively engaged in education, training and technology transfer activities focused on dissemination of information regarding the potential for utilization of remote sensing/geographic information systems technologies. During the period of 1972-1981, the KARS Program carried out approximately 40 cooperative remote sensing projects with Kansas agencies.

The recognition that agencies might benefit from closer cooperation and coordination in using remote sensing/geographic information systems techniques led to the establishment of an *ad hoc* Interagency Task Force on Applied Remote Sensing. During its initial meetings, the Task Force addressed the following issues:

- <u>Task Force composition</u> Kansas state agencies and local units of government, federal agencies and other potential users of these technologies were invited to participate in the Task Force.
- Systematic study of user needs A survey of Kansas state agencies' data needs which might be better met through application of these technologies revealed that at least 38 statutes or specific projects in the State of Kansas could benefit from data acquired by remote sensing/geographic information systems technologies.
- Institutionalization of a remote sensing/geographic information system capability in Kansas A delegation of three members of the ad hoc Task Force requested Governor John Carlin's advice in regard to alternatives for institutionalizing an operational remote sensing/geographic information system capability in the state.
- KARS <u>funding</u> A study of alternatives for providing continuing support for the KARS Program was initiated.

Information center concept - The steps other states (e.g., Texas, Minnesota) have taken to provide operational remote sensing/geographic information systems services through state integrated information systems were reviewed.

The Task Force, as constituted by Senate Resolution 1644, met 12 times during the period April 1982 - December 1983. These meetings dealt with the following major topics and issues:

- 1. <u>Task Force administration and work plan</u> The Task Force reviewed and endorsed an 18-month work plan designed to fulfill its mandate under Resolution 1644. Edward Martinko, KARS Program, was elected Chairperson and Robert Walters, Kansas Department of Revenue, Vice Chairperson.
- Establishment of committees to evaluate key issues A Committee on Baseline Funding was formed to review the need for baseline funding for the KARS Program. That Committee proposed that the Task Force recommend that the Governor and Legislature provide continued baseline funding in line with projected costs of maintaining KARS services at their current level. A User/Agency Support Committee was directed to evaluate the role of users in supporting the KARS Program. A major recommendation of that group was that the Kansas Board of Regents should be formally advised of the work of the Task Force and encouraged to consider additional baseline funding for the KARS Program. A third committee formed to review options for maintaining KARS services and capabilities formulated several recommendations, including (a) the KARS Program needs to be identified as a separate and distinct program within the University's domain, (b) the Kansas Interagency Task Force on Applied Remote Sensing should continue to exist beyond December 31, 1983, and (c) the concept of a state resources information center should be considered as a longterm objective for the State of Kansas.
- 3. <u>Task Force Interim Report</u> An Interim Report was prepared and submitted to the Governor and the Kansas Legislature prior to December 31, 1982. The concept of a state resources information center was identified as one alternative for providing greater

utilization of remote sensing/geographic information systems technologies on a statewide basis. A FY84 "care taker" baseline budget was recommended for the KARS Program as an interim measure, in view of current state fiscal circumstances.

- 4. <u>Development of proposed legislation</u> The Task Force endorsed proposed legislation for establishing a Kansas commission on applied remote sensing, and for conducting a statewide inventory of impounded surface water.
- 5. Sponsorship of a statewide conference on applied remote sensing and mapping in Kansas The Office of Governor John Carlin, the Kansas Interagency Task Force on Applied Remote Sensing and the KARS Program sponsored a Governor's Conference on Applied Remote Sensing, Geographic Data Analysis and Mapping in Kansas. The conference focused on the user or potential user of the technologies.
- 6. <u>Task Force recommendations and Final Report</u> The conclusions and recommendations of the study committees were incorporated into Task Force recommendations.

III. Issues and Actions

Five major issues were evaluated by the Task Force. These issues, and the actions taken by the Task Force to address the issues, are as follows:

1. Evaluation of remote sensing/geographic information systems technologies for meeting data needs of Kansas agencies — The Task Force invested considerable effort in learning about the operations and applications of remote sensing/geographic information systems technologies, and the manner in which these techniques might assist Kansas agencies in fulfilling their missions in a more cost-effective and/or more timely fashion.

Actions

• The Task Force and the KARS Program conducted a user needs survey to document the ways in which state agencies could use remote sensing/geographic information systems technologies to better accomplish their assigned missions and legally mandated obligations. At least 38 statutes or specific projects in the State of Kansas were identified that could benefit from data

acquired by remote sensing/geographic information systems technologies. The most recurrent interagency data requirements included a general land use/land cover inventory, irrigated lands identification and classification, and crop identification.

- A delegation of three members of the Task Force visited Governor John Carlin in September 1981 to discuss the nature and accomplishments of the Task Force, and to request his advice in regard to alternatives for institutionalizing an operational remote sensing/geographic information systems capability in Kansas.
- The Task Force sponsored a statewide conference on remote sensing/geographic information systems technologies, designed to provide an overview of the state-of-the-art, to disseminate information on the Task Force, and to provide opportunities for training in these technologies. Over 100 Kansans representing local, state and federal agencies and private firms from across the state participated in the two-day event.
- 2. The need for the Kansas Applied Remote Sensing (KARS) Program The Task Force concluded that the KARS Program has served a unique role in the State of Kansas, and has made significant contributions to the efforts of Kansas agencies by assisting them in using remote sensing/geographic information systems techniques to deal with Kansas' agricultural, environmental, natural resources and planning problems.

Actions

- The Task Force reviewed the status of the KARS Program, and concluded that it is in the State's best interest that services provided by this Program not be placed within the jurisdiction of any particular agency. The KARS Program is now a line item program within the University's budget.
- The Task Force found that the KARS Program has played an active part in promoting the use of high technology remote sensing/geographic information systems techniques to assist state agencies and others to effectively plan and manage Kansas' environmental and natural resources.

Needs and alternatives for funding the KARS Program - Since 1972, 3. the KARS Program has operated under a grant of approximately \$125,000/year from NASA. This funding has subsidized virtually all KARS services, technology transfer, training and demonstration project activities. NASA, having invested more than 1,400,000 in the KARS Program during the last 11 years, is terminating support for demonstration services to Kansas agencies. In order to provide the State of Kansas with the opportunity to maintain a viable applied remote sensing program, NASA has gradually phased down funding for these activities over a three-year period so that the State will have time to retain and utilize the existing staff and equipment of the KARS Program in the implementation of an operational remote sensing program for Kansas agencies. The Task Force agreed that, while it is important that user fees provide substantial support for the KARS Program, project/contractual commitments on the part of state agencies might not be enough, in and of themselves, to support ongoing activities of the KARS Program.

$\underline{Actions}$

• The Task Force concluded that the KARS Program should receive baseline funding from the State general revenue, initially at approximately the level heretofore provided by NASA, to support general services required by all agencies, the Legislature, and the Governor's Office. Such funding would support a skilled, experienced core staff; maintenance of KARS equipment, library, software; staff support for the Task Force, materials, communications and other services; communications (e.g., Task Force mailings, telephone, KARS Newsletter); consulting and information services for Kansas agencies; assistance in project development, design and proposal preparation; training and short courses, briefings and presentations for public agencies and professional groups and the Task Force; and travel in support of the above services.

- The Task Force worked with the Office of Governor John Carlin and the Legislature to establish a fee fund within the budget of the University of Kansas, to facilitate the transfer of funds by state agencies to the KARS Program.
- The Task Force proposed that specific legislation be prepared to address issues/projects of statewide importance and of value to several agencies.
- The Task Force endorsed KARS efforts to continue to acquire research support from NASA and other public agencies and private firms.
- The Task Force supported KARS' intent to charge fees to recover costs for products and services.
- 4. A permanent Interagency Commission on Applied Remote Sensing —
 The Task Force has served a unique function in Kansas state government. Over and above its role in evaluating remote sensing/
 geographic information systems technologies and the KARS Program,
 it has provided an important forum for public agencies to identify and communicate matters of mutual interest.

$\underline{Actions}$

• The Task Force has proposed legislation to establish a Kansas Commission on Applied Remote Sensing to (a) assist users in assessing the capabilities, costs and alternatives for employing remote sensing or related geographic information systems technologies; (b) serve as a forum for interagency communication, coordination and cooperation; (c) advise the KARS Program regarding the data and informational needs of commission members; (d) aid the KARS Program in identifying and prioritizing applied and research projects; (e) disseminate information regarding new developments and capabilities; and (f) prepare and recommend funding levels for the KARS Program and the Commission. No funding would be appropriated for the Commission. The KARS Program baseline budget would provide support staff and services. Agencies would contribute staff time and travel.

- The Task Force has proposed legislation to have the KARS Program conduct a statewide inventory of impounded water, and create a computer information system for such data. This project was identified as being of statewide interest.
- 5. Eventual need for a natural resources information center An important long-term goal identified by the Task Force considered the need and utility of a more broadly focused state natural resources information center. Such a center would retain and expand all of the current capabilities of the KARS Program. In addition, it could be charged with inventorying, cataloging and coordinating data about Kansas maintained by state, local and regional agencies, federal agencies, some private firms and institutions of higher education. Such a center could provide clearinghouse and referral servcies; federal-state coordination; spatial data analysis capabilities; spatial data base development for state users; statistical analyses, simulation and forecasting capabilities; remote sensing data/imagery interpretation; training, briefings, and short courses; and development and/or implementation of new technologies.

$\underline{Actions}$

- Task Force members and KARS staff have reviewed the status of information systems in several other states, and have visited the Texas Natural Resources Information System (TNRIS) in Austin, Texas.
- The Task Force has proposed that an inventory of impounded surface water resources be conducted. The completion of this inventory would be a significant start in the direction of establishment of a geographically-based comprehensive Kansas information system.

IV. Conclusions and Recommendations

As a result of its deliberations and assessments, the Task Force concludes the following:

1. Remote sensing/geographic information systems technologies have been demonstrated to be of substantial value in dealing with a great variety of issues of concern to Kansas agencies.

- 2. The KARS Program has a distinguished record in dealing with Kansas agencies, and it is clearly in the interest of the State of Kansas to secure, maintain and enhance the KARS Program.
- 3. The National Aeronautics and Space Administration (NASA) has provided generous financial support to the KARS Program since 1972, totalling more than \$1,400,000. This support has provided the State of Kansas with a unique resource in the KARS Program, and the State should ensure that adequate financial support is provided to the KARS Program to enable the Program to continue to serve Kansas agencies.
- 4. A resources information center could facilitate enormous tasks such as a statewide reappraisal, water resources planning, soil erosion assessment, and monitoring of prime agricultural land use change. The State of Kansas should carefully consider the merits of establishing such an information center.
- 5. The Task Force has provided a unique and important forum in which agencies may regularly share ideas, identify common interests and define areas and means of cooperation.

The Kansas Interagency Task Force on Applied Remote Sensing makes four specific recommendations.

- The Kansas Applied Remote Sensing (KARS) Program should be maintained at the University of Kansas.
- 2. The Kansas Applied Remote Sensing Program should be provided baseline funding from the general revenue in the amount of \$117,000 for the period of July 1984 June 1985.
- 3. Three mechanisms should be available for funding projects undertaken by the KARS Program on behalf of state agencies:
 - The fee fund should be continued so that agencies can transfer money directly to the KARS Program to accomplish projects of interest to individual agencies.
 - Agencies could jointly propose projects that are of particular interest to more than one agency, but are not necessarily of general, all-encompassing need.
 - Issues of statewide/general importance and/or of importance to the Governor or Legislature could be addressed by bills submitted by interested legislators; funds would not be drawn from any one agency's budget.

4. A Commission on Applied Remote Sensing should be established by statute to continue the work of the Kansas Interagency Task Force on Applied Remote Sensing. There should be an annual review of the Commission and the KARS Program by the Legislature, and a general review in January 1987, with consideration given to designating the KARS Program an operational program and/or providing it agency status.

Kansas Interagency Task Force on Applied Remote Sensing (April 1982 - December 1983)

MEMBERS:

Governor's Office

Kansas House of Representatives

Kansas Senate

Kansas Applied Remote Sensing Program

Kansas Association of Counties

Kansas Association of Groundwater Management Districts

Kansas Corporation Commission

Kansas Department of Economic Development

Kansas Department of Health and Environment

Kansas Department of Revenue

Kansas Fish and Game Commission

Kansas Geological Survey

Kansas Park and Resources Authority

Kansas State Board of Agriculture

Kansas Water Office

University of Kansas

OTHER PARTICIPATING AGENCIES:

USDA Agricultural Stabilization and Conservation Service

USDA Soil Conservation Service

USDI Bureau of Reclamation

USDI Geological Survey



THE KANSAS STATE PARK AND RESOURCES AUTHORITY 503 KANSAS AVENUE, P.O. BOX 977 Phone (913) 296-2281 TOPEKA, KANSAS 66601

October 27, 1983

Edward A. Martinko, Director Kansas Applied Remote Sensing Program Chairman. Kansas Interagency Task Force on Applied Remote Sensing Univ. of Kansas Space Technology Center Raymond Nichols Hall 2291 Irving Hill Drive-Campus West Lawrence, Kansas 66045

Dear Mr. Martinko:

Your courtesy in providing me with the summary of the October 11th, 1983 meeting of the Kansas Interagency Task Force on Applied Remote Sensing is sincerely appreciated. I have reviewed this summary and I'm impressed with the comprehensive work of the Task Force on this important activity. The State Park and Resources Authority is pleased to join in support of the Task Force recommendations.

Yours truly,

Lynn Burris, Jr.

Director

LBjr:ab

STATE OF KANSAS



John Carlin, Governor

KANSAS WATER OFFICE Joseph F. Harkins Director

October 27, 1983

Suite 200 109 SW Ninth Topeka, Kansas 66612

913-296-3185

Dr. Edward Martinko, Chairman
Kansas Interagency Task Force
on Applied Remote Sensing
Nichols Hall, University of Kansas
Space Technology Center
2291 Erving Hill Drive
Lawrence, KS 66045-2969

Dear Dr. Martinko:

We have reviewed the draft of the final report of the Kansas Interagency Task Force on Applied Remote Sensing. A detailed review suggesting several minor changes in the organization of the report has been sent to you under separate cover. The purpose of this letter is to comment directly upon the conclusions and recommendations of the Task Force as given in the draft report. Our principal comments have been organized under the headings given.

A. Maintenance of the Kansas Applied Remote Sensing (KARS) Program

We fully agree with the first recommendation of the final report that the KARS Program be maintained at the University of Kansas. We commend the University for including the KARS Program as a non-academic program within the University. Furthermore, we agree that maintenance of the KARS Program at the University of Kansas will assure the broadest possible availability of remote sensing and geographic information system technology to Kansas state agencies and organizations at all levels of government.

B. Funding Arrangements

The Task Force recommendations concerning funding appear to be quite reasonable. If, for example, interest exists in one or more agencies for remote sensing related services, the funding mechanisms recommended for KARS are varied enough that services can be facilitated. On the other hand, if the KARS Program itself is not provided with independent "baseline" funding, there will be no KARS Program to perform needed services. The rapidly evolving capabilities of remote sensing and geographics information

Dr. Edward Martinko, Chairman Page 2 October 27, 1983

systems technologies support the wisdom of retaining the capabilities apparent in the KARS Program within the state, either as a separate agency or under the Board of Regents. The present location of the KARS Program within the University of Kansas is a very workable arrangement and should be retained unless something better is possible.

C. Interagency Commission

Both the utility of remote sensing and geographic information systems technologies and the desirability of a statewide resources information center are more than sufficient reasons for continuing the type of examination and discussion of possibilities which was facilitated by the Interagency Task Force on Applied Remote Sensing. Consequently, we agree with the recommendations to continue some form of Interagency Task Force, Commission, or Council. Since the proposed Interagency Commission on Applied Remote Sensing will not require a separate budget, it is a desirable vehicle for continuing the investigation of potential applications of remote sensing and related technologies.

D. Proposed Legislation

With regard to the proposed legislation concerning a surface water inventory, we can say that such an inventory would be of some use. We cannot say at this point that a surface water inventory such as envisioned would be of immediate and extensive use in our efforts to develop the State Water Plan. However, the development of a geographically-based referencing system with which to relate other natural resources information is certainly a step in the direction of making all resource information more available to all those who may need or use this type of information. Consequently, the method by which the surface water inventory would be obtained is more important than the fact that one aspect of natural resources, surface water impoundments, would be identified and quantified.

I wish to complement the Task Force on the breath of issues that were addressed and the comprehensive nature of its recommendations. I believe that the Task Force has been of great service to the State of Kansas.

Sincerely,

Joseph F. Harkins

Director

JFH:DFK:dk

cc: The Honorable John Carlin, Governor

Kansas Fish & Game

BOX 54A, RURAL ROUTE 2, PRATT, KANSAS 67124 (316) 672-5911

REGIONAL OFFICES:

Northwest Regional Office Rt. 2, 183 Bypass Hays, Kansas 67601

Northcentral Regional Office Box 489, 511 Cedar Concordia, Kansas 66901

Northeast Regional Office 3300 S.W. 29th Street Topeka, Kansas 66614 Southwest Regional Office 808 Highway 56 Dodge City, Kansas 67801

Southcentral Regional Office Box 764, 204 West Sixth Newton, Kansas 67114

Southeast Regional Office 222 West Main Building Suite C & D Chanute, Kansas 66720

October 28, 1983

Edward A. Martinko, Chairman Kansas Interagency Task Force on Applied Remote Sensing Raymond Nichols Hall 2291 Irving Hill Drive Lawrence, KS 66045

Dear Dr. Martinko:

The final report and recommendations of the Kansas Interagency Task Force on Applied Remote Sensing adequately addresses the concerns of the Kansas Fish & Game Commission.

We specifically commend the Task Force recommendations for provision of direct appropriations to provide baseline funding for the continuation of the KARS program, the flexibility provided for funding for agency specific projects and issues of statewide/general importance, and the creation of the Kansas Commission on Applied Remote Sensing.

We have \$7,000 budgeted in FY.84 for utilization of KARS services and have requested an additional \$15,000 in FY85 for further services, especially in anticipation of the proposed statewide surface water inventory data base creation.

Sincerely,

Bill Hanzlick

Director

cc: Gov. John Carlin

KANSAS DEPARTMENT OF ECONOMIC DEVELOPMENT

503 Kansas Avenue, Sixth Floor, Topeka, Kansas 66603 Phone (913) 296-3481



JOHN CARLIN Governor CHARLES J. "Jamie" SCHWARTZ
Secretary

November 3, 1983

Mr. Edward A. Martinko
Chairman, Kansas Interagency Task
Force on Applied Remote Sensing
Raymond Nichols Hall
2291 Irving Hill Drive
Lawrence, Kansas 66045

Dear Mr. Martinko:

I would like to take this opportunity to express support for the final recommendations of the Kansas Interagency Task Force on Applied Remote Sensing. The proposed continuation of the KARS Program, along with the combination of basic program and project funding, offer a reasonable and efficient means for insuring the transfer of remote sensing technology to potential users in Kansas.

As the agency with the primary responsibility for high technology development in the state, the Kansas Department of Economic Development is encouraged by efforts to preserve the KARS Program and the valuable technology it provides Kansas users. From the standpoint of planning for the future of Kansas, the KARS Program should be preserved.

Sincerely.

Charles J. Schwartz

Secretary

CJS:sk



United States Department of the Interior

GEOLOGICAL SURVEY

Water Resources Division
1950 Constant Avenue--Campus West
University of Kansas
Lawrence, Kansas 66044-3897

November 8, 1983

Mr. Edward A. Martinko Chairman, Kansas Interagency Task Force on Applied Remote Sensing Raymond Nichols Hall 2291 Irving Hill Road Lawrence, Kansas 66045

RE: Task Force Recommendations

Dear Mr. Martinko:

The recommendations of the Kansas Interagency Task Force on Applied Remote Sensing have been reviewed by the Kansas District of the U.S. Geological Survey and are generally supported by this office.

We agree that baseline funding for your efforts would be desirable in order that you could maintain the technical expertise and equipment necessary for your activities on a continuous basis. As per your recommendations, it would also seem appropriate to obtain additional support for project work via a service fee.

We believe that the Kansas Applied Remote Sensing program has provided an important service to the State of Kansas and in the advancement of the science of remote sensing. Continued service by this program would help provide many of the tools needed by Kansas to plan for appropriate future State development.

Sincerely,

Jerry E. Carr Hydrologist 760 South Broadway Salina, Kansas 67401

December 2, 1983

Mr. Edward A. Martinko, Director Kansas Applied Remote Sensing Program The University of Kansas Space Technology Center Raymond Nichols Hall 2291 Irving Hill Drive, Campus West Lawrence, Kansas 66045-2969

Dear Mr. Martinko:

We appreciated the opportunity to participate in your Governor's Conference on Applied Remote Sensing, Geographic Data Analysis and Mapping Conference in Kansas. The Soil Conservation Service participants have indicated the conference was a great success.

If a Kansas Commission on Applied Remote Sensing is established, the Soil Conservation Service will be happy to be an active participant. Collection and distribution of resource data is an important part of most agencies' work including the SCS, and the proposed commission can provide a valuable service in this area.

Sincerely,

John W. Tippie

State Conservationist

cc:

James W. Merchant, University of Kansas, Space Technology Center, Lawrence, Kansas Kenneth E. Noonan, SCS, Topeka

KANSAS GEOLOGICAL SURVEY

Office of the Director

1930 Constant Ave., Campus West The University of Kansas Lawrence, Kansas 66044-3896 913-864-3965

December 5, 1983

Edward A. Martinko, Director Kansas Applied Remote Sensing Program Chairman, Kansas Interagency Task Force and Applied Remote Sensing 240 Nichols West Campus

Dear Ed:

I have reviewed the draft copy of the Final Report to the Governor and Legislature of the Interagency Task Force on Applied Remote Sensing. The findings and recommendations of the Task Force have my very warmest endorsement.

I note, for your information, that I am particularly interested in seeing the program assume responsibility for the development of a natural resource information network, similar in character to the Texas Natural Resources Information System. I believe that KARS is ideally positioned to undertake this responsibility, and the program could begin on a phased basis.

I wish you every success in this enterprise.

Sincerest regards,

William W. Hambleton by da

Director

WWH:ds



KANSAS STATE BOARD OF AGRICULTURE

TOPEKA, KANSAS 66612-1280

109 S.W. 9th Street 913-296-3556

December 6, 1983

Dr. Edward A. Martinko, Director Kansas Applied Remote Sensing Program Chairperson, Kansas Interagency Task Force on Applied Remote Sensing K.U. Space Technology Center 2291 Irving Hill Drive-Campus West Lawrence, KS 66045-2969

Dear Mr. Martinko:

We have reviewed a draft copy of "Final Report and Recommendations of the Kansas Interagency Task Force on Applied Remote Sensing". We find the report quite comprehensive and complete.

We wish to commend the Task Force for its efforts to bring the needs of the various state agencies for remote sensing into focus. The accumulation of this type of information is proving to be very useful as we consider the possibilities of using this rather new technology.

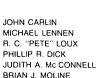
I feel we are fortunate to have an $\mbox{\rm Applied}$ Remote Sensing Program available to Kansas and its agriculture.

Sincerely yours,

Harland E. Pridd

Secretary

HEP:jlb



Governor Chairman Commissioner Commissioner Executive Secretary General Counsel



State Corporation Commission

Fourth Floor, State Office Bldg.
Ph. 913/296-3355
TOPEKA, KANSAS 66612-1571

December 6, 1983

Mr. Ed Martinko, Chairman Kansas Interagency Task Force on Applied Remote Sensing Raymond Nichols Hall 2219 Irving Hill Drive Lawrence, Kansas 66045

Dear Mr. Martinko:

The Kansas Corporation Commission generally supports the recommendations of the Kansas Interagency Task Force on Applied Remote Sensing as expressed in its final report. We believe the proposed approach will preserve the significant investment Kansas has already made in developing this technology. Maintaining the viability of the KARS program will allow all of us to use this tool in our future planning efforts.

Sincerely,

Michael Lennen

Chairman

ML:nvw



Big Bend Groundwater Management District No. 5

206 NORTH MAIN • P.O. BOX 125 • ST. JOHN, KANSAS 67576 • PHONE 316-549-3891

January 20, 1984

Mr. Ed Martinko, Chairman Kansas Interagency Task Force on Applied Remote Sensing Raymond Nichols Hall 2219 Irving Hill Drive Lawrence, Kansas 66045

Dear Mr. Martinko:

The Kansas Groundwater Management District Association has reviewed the draft copy of "Final Report and Recommendations of the Kansas Interagency Task Force on Applied Remote Sensing." We find the report to be complete and comprehensive and wish to extend our support for the recommendations contained in the report.

Sincerely,

Ralph K. Davis

Ralph IL. Davis

Manager

sf

c: GMD's 1,2,3,4



DEPARTMENT OF ADMINISTRATION Office of the Secretary

JOHN CARLIN, Governor MARVIN A. HARDER, Secretary of Administration Room 263-E State Capitol Building Topeka, Kansas 66612 (913) 296-3011

MEMORANDUM

TO: The Honorable Ben Vidricksen, Chairman

Senate Committee on Governmental Organization

FROM: Marvin A. Harder, Secretary of Administration

DATE: March 21, 1984

RE: House Bill 2619

The State Telecommunications Advisory Committee was authorized in 1974 by K.S.A. 75-4711. Its purpose is to advise the Secretary of Administration with respect to the adoption of rules and regulations for the acquisition, retention, and use of telecommunications services by all state agencies.

Members were appointed to the Committee in 1974; however, no meetings were ever held, and there are currently no members appointed to the Committee. No funds have been budgeted or paid in support of this committee. The Secretary of Administration is the Chairman of the Committee and is responsible for calling meetings and setting the agenda.

K.S.A. 75-3706 authorizes procedures for the Secretary of Administration to adopt rules and regulations; therefore, the advisory committee is no longer needed in this capacity.

The Secretary of Administration supports the recommendation that the State Telecommunications Advisory Committee be abolished according to House Bill 2619.

MAH:mkr