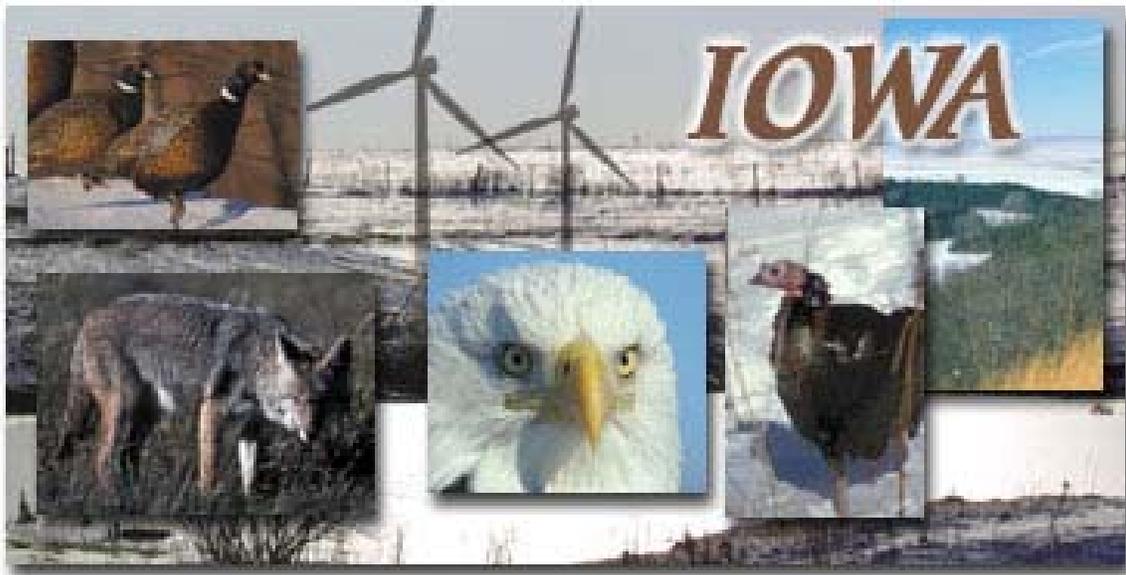




Iowa Water Science Center

Program Review Fiscal Years 2005 and 2006

Prepared March 1, 2005



1879–2004

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I. PRIORITY SCIENCE ISSUES

MAJOR CURRENT OR EMERGING WATER ISSUES

Total Maximum Daily Loads (TMDL)

USGS has been involved for several years with the Iowa Department of Natural Resources in gathering bathymetric and lakebed coring data for developing TMDL allocations for lakes and in pollutant loading on the Cedar River. The work on the lakes is continuing to grow with seven lakes planned for completion in FY2005. The larger expansion is with the Cedar River as the USGS will be developing a water-quality model of the river following previous years' efforts that included Lagrangian water-quality sampling, time of travel studies, synoptic sampling, and long-term water-quality and water-quantity monitoring. The modeling would identify loading from tributary stream areas within the basin using DAFLOW/BLTM or QUAL2K models; the model selection has yet to be made. Funding for the effort is through an IAG with USEPA for two years (FY2005 and FY2006) with additional funding from the Iowa Department of Natural Resources within the federal-state cooperative program in FY2006.

Water Monitoring Program

The Water Monitoring Section of the Iowa Geological Survey (part of the Iowa Department of Natural Resources) is responsible for the design, implementation, and management of Iowa's Ambient Water Monitoring Program. The purpose of the program is to develop and deliver consistent, unbiased information about the condition of Iowa's surface and ground-water resources so that decisions regarding the development, management, and protection of these resources may be improved. The USGS has been the primary partner in the state-wide monitoring program which was expanded in FY2005 to include the ongoing multi-year cooperative project for a large-river monitoring program and a new pilot project on the use of real-time water-quality monitoring instrumentation at selected sites during the open-water season (April through September) in FY2005.

Agricultural Impacts on Water Resources

The Iowa Water Summit held in 2004 was a forum designed to establish a roadmap to eliminate impaired waters in Iowa. The Summit brought together diverse groups to identify consensus solutions to Iowa's water-quality problems and outline specific steps that Iowa can take to achieve this goal. USGS was involved in the summit meetings and workshops, providing expertise, presentations, and input in the discussions regarding solutions to the water-quality challenges in Iowa. The next step in the process is to begin working, in partnership with the Iowa Department of Natural Resources, the Iowa Department of Agriculture and Land Stewardship, and the United States Department of Agriculture on determining the impacts of agriculture land use practices on water quantity and quality. The impacts would include the effectiveness of already implemented best management practices such as grass waterways, conservation reserve program land, wetland reserve program, no-till, tile drainage, etc.

CENTER SCIENCE PLAN

How has the Science Plan been used and your perceptions of its value?

The Science Plan is currently a "science vision" and is being used as a platform for developing a new program direction in direct partnership with the Iowa Department of Natural Resources by having their direct input in the plan as a full partner in the implementation and concurrence on the science goals.

Changes in the Science Plan since its submittal to Region

The science vision has been discussed with Region and is currently being drafted into a Science Plan which will include both an implementation plan and communication plan.

Summary of progress in implementing the Science Plan

The plan has been fully accepted by the major State partner, Iowa Department of Natural Resources, and has been used to develop the first plan-based project that addresses state-wide water-quality monitoring related to land use impacts. The next step is to work with the State partner on developing program with the State and federal agricultural-based agencies.



FUTURE PROGRAMMATIC OPPORTUNITIES FOR INVOLVING OTHER USGS RESOURCES

The Center has and will continue to seek out program partnerships within the Bureau. Recent successful efforts are the partnership programs with the Biology and Geology disciplines in a CRISP project on perchlorate. However, there were difficulties (see discussion in Studies Section) in the use of a ground-water flow modeler from the Yucca Mountain Project on a Center project. The NRP and the NWQL will continue to be a strong and vital component of the Center's program as new emerging issues will require the need for state-of-the-science data acquisition, analysis, and analytical procedures; one NRP lecturer has been requested for FY2005.

II. TECHNICAL ISSUES

STATUS OF DATA PROGRAM



Currently, the Section has 16 full-time employees, in the three offices located in Iowa City, Council Bluffs, and Fort Dodge. The Section also oversees the Iowa sediment lab co-located in Iowa City which has an additional three full-time people. The Section's program continues to be enthusiastic, progressive, and a leader in real-time records processing. These qualities have been enhanced by investments in new technologies such as ADCPs, ADVs and PDAs, and continual cross training within the Section. These investments have and will continue to pay off in dividends of increased morale and increased program. The Section continues to keep records real-time while becoming "click-free" using the definition of "no moving parts".

Table 1—Data Collection Program

Type of Station	Number of Stations	Cost per Station
Continuous stream flow	130	\$12,450
Continuous stage	7	\$6,225
Crest-stage	90	\$1,520
Precipitation	7	\$2,990
NASQAN	2	\$36,180 and \$46,440
Sediment	11	\$16,670 to \$21,470
Reservoir/lake	9	\$4,110
Miscellaneous ground-water	163	\$500
Ground-water quality	150	\$2,400

Successes/Opportunities/Needs

The Section continued to have ongoing discussions with the Iowa Department of Natural Resources and various other customers looking for areas that we can build program and develop new capabilities. Continuing talks with the TMDL section of the IDNR have resulted in a successful program of bathymetry work, which started with an initial program of TMDL bathymetric data collection for three lakes in FY2002. Then continuing on into FY2003 and FY2004, we had a two year program to survey nine lakes (5 in FY2003 and 4 in FY2004). In January '04, we had discussions with the TMDL, Fisheries and Geological Bureau of the IDNR, which may lead to the USGS conducting bathymetric surveys on all 135 lakes left to do in Iowa. These talks are continuing despite tight State budgets. More recently in FY2005 we are going to conduct surveys on seven smaller lakes in Iowa. This program appears to be consistent and is supported by several managers in the DNR; however, we will only be able to do about five lakes per year depending on the size of the lake. Currently, we have added a student and have scheduled one of our field techs to help on this effort at almost half time. We are entering our fourth year doing this type of work but it has left the data section people short handed especially when factoring in the two retirements which occurred late in FY2004. What we need to do is hire at least another person to backfill the fulltime person that retired in '04 and backfill the student that resigned in December in the data section to ease the load on the rest of the field people.

The Section took on the challenge by the CRACD team almost three years ago to keep all surface water records current and up to date. The Data Section was and continues to be successful in meeting this challenge, while still conducting our own program activities and supporting the activities of the Studies Section. All surface water records were worked and checked by November 3, 2004 and they were all flagged final in NWIS WEB by December 7, 2004. A full (100%) review of all records in a round-robin style review was completed between the field offices and found little that needed changed. We are having issues getting the PDF files to work correctly and this problem has caused a delay of getting the ADR on the web by at least 1 to 2 weeks as of today's date (2-7-2005).

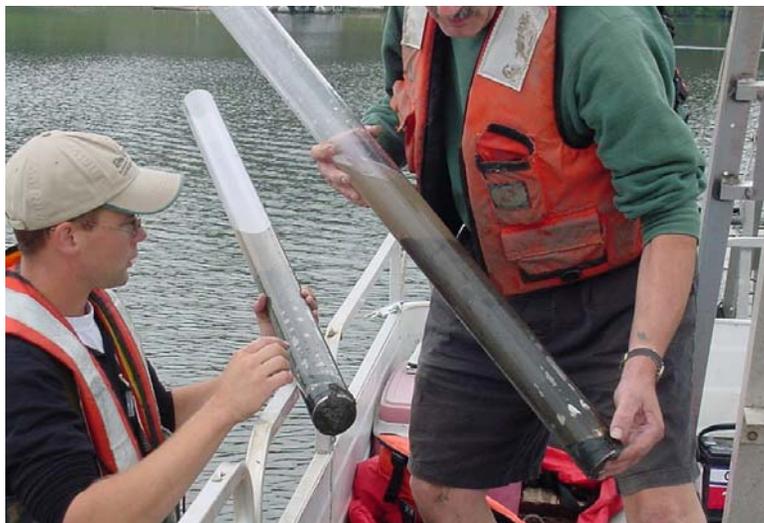
Center-Specific Data Issues

All stations are equipped with DCPs and are operated real-time. The Section has been working with the Rock Island and the Omaha COE on removing older, lower baud DCPs and replacing them with 300 baud DCPs. This change will allow us to change out the COE's Vitel DCPs for Sutron and Design Analysis DCPs which we are more familiar with working on and programming. This upgrade in equipment is currently ongoing with a total of 18 DCPs to be changed out for the higher 300 baud rate DCPs.

The Data Section developed a spreadsheet to help in scheduling our field activities over the course of the year, primarily the warmer months. Routine maintenance trips and of course, flood trips were not scheduled. The result of that effort graphically showed how tightly stretched everyone's time is over the field season. Although, the data section hired a student part-time to help on post processing the lake data, we needed to reprogram half of our new full-time field tech's time to work on post-processing the lake data. This has left the Section under-staffed.

Investments in New Capabilities and Progress toward Automated Measurement and Data Processing

The Section has designed and built a detachable boom for our 22-foot boat from which sediment core samples can be collected using a gravity core barrel. In addition to the detachable boom, the Data Section also bought a twin hull coring platform for taking sediment cores in lakes using a vibrating coring tool and plastic core tubes, which continues to be used in the bathymetry efforts. The Iowa Data Section uses a five beam acoustic depth sounder for use in its bathymetric surveys. This unit has the ability to penetrate sediment to the original bed material.



PDA's have been purchased for all field personnel and a training class was held in January 2003 on the use of the PDA in field data collection, field form completion, and data transmission.

The Section is in the process of purchasing additional equipment including two more ADCPs, two more GPS units, two more Boggie Dopps and possibly two more flow trackers. Currently the Iowa Data Section owns six Acoustic Doppler Current Profilers, four GPS, and two digital echo sounders, including one tethered boat, and one remote controlled boat. Also utilized are five (one as backup) side-looking Doppler units for velocity measurements below reservoirs. The Iowa Data Section also has one upward looking ADCP for measuring flow between lakes. The data section also owns eight ADVs, four Boggie Dopps, and three AquaCalcs. This water year we are going to make all of our field trips without using the Price AA or Pygmy meters. Price meters will only be used as backups in the rare case that the acoustic meter does not work properly. In keeping with our goal of shorter time on bridges, we are developing a system to be permanently mounted on a bridge for ADCP use. This system will be enclosed and battery operated, allowing the field person to be completely off of the bridge. Because of being click-free, the Iowa Data Section is changing the type of vehicles required for field use to a smaller lighter weight vehicle with better fuel mileage, while maintaining one heavy duty truck for pulling the larger pieces of equipment.

Date that SW Data were Finalized in NWIS and Plan for Reporting/Publishing other Data

All records are worked real-time and kept current. All FY2004 records were worked and reviewed by Nov 3 and all records were marked final in NWIS as of Dec 7, 2004. The first volume of the annual data report was approved at the end of January, but we encountered linkage problems. We tried to upload the files to the national web site on February 3, 2005 but again encountered PDF linking problems; finally the file was placed on the web February 9, 2005.

STATUS OF STUDIES PROGRAM



The Center's Studies Program is comprised of data and interpretive projects that are of short or limited term and that typically end with the delivery of a final product (report or data). The Studies Program includes the National Water Quality Assessment (NAWQA) study unit in Iowa. There are currently (2/1/05) 9 hydrologists assigned to the Section and we are running a vacancy for a GS-7 term hydrologist position.

Funding for the Studies Program is divided among the three main funding categories: Cooperative Water Program, Federal Program, and Other Federal Agency Program.

Historically, the Cooperative Water Program has been the largest source of funds for the Studies Program. This changed in FY1994 when the Center (and Section) began work on a Federally-funded NAWQA Study Unit. NAWQA funding during the low intensity phase (since about 1999) of activities now results in about 18% of the total Studies Program and the Cooperative Water Program is again the largest funding source for the Studies Program.

In FY2005, the distribution between funding sources in the Studies Program is approximately 41% Cooperative Water, 37% Federal, and 22% Other Federal Agency. The distribution in FY2006 is currently shown to be about 43% Cooperative Water, 42% Federal, and 15% Other Federal Agency. Estimated total funding from a combination of Cooperative Water, Federal, and Other Federal Agency sources is predicted to increase about \$14,500 from FY2005 to FY2006. A discussion of each major funding source is listed below.

Cooperative Program - Total funding for Cooperative Water Projects from FY2005 to FY2006 is estimated to increase about \$37,000. This increase is anticipated due to expected new program with the Iowa Department of Natural Resources to supplement TMDL modeling that is expected to begin in FY2005 with U.S. Environmental Protection Agency funds. The matching ratio for FY2005 is 45:55. Approximately 76% of the Cooperative Program funds in FY2005 are with state government customers, which is a dramatic increase from prior years when the majority of funding was from municipal partners. State-government projects are primarily data-collection projects to support state agency monitoring needs. Cooperative Water Program funding with local government agencies is primarily for ground-water or water-quality projects. The surface-water-quality monitoring project with the Iowa Department of Natural Resources (8591-BBE00) is the largest Cooperative Water Project in FY2005 and FY2006 due to program inflationary costs, replacing the ground-water water-quality projects with the City of Cedar Rapids and Iowa Department of Natural Resources which were the largest Cooperative projects for a number of years.

Federal Program - Total funding for federally-funded projects is difficult to estimate for FY2006 because of uncertainties in the funding of work during the second cycle for NAWQA. The Eastern Iowa Basins NAWQA Unit (8591-9BI00) has been selected for a reduced Agricultural Chemical Transport (ACT) topical study. At the time of this writing, there appears to be some uncertainty about future NAWQA funding levels. Funding tables show an increase of about \$126,500 in anticipation of continued funding of the ACT. Federal funding of Toxics Substances Hydrology Program efforts in Iowa is down slightly in FY2005 from anticipated amounts and will probably be flat to slightly less in FY2006.

Other Federal Agency Program - Funds in this category are expected to decrease by nearly \$150,000 from FY2005 to FY2006. This decline is attributable to completion of work for the U.S. Environmental Protection Agency data collection projects EMAP and LIPS. Both of these efforts materialized mid-year 2004 and were developed from outside the Center. The Center continues to be active at Army Reserve sites in Iowa and Kansas, although the bulk of the available work was probably completed in previous years. The Center continues to provide technical support and review activities for U.S. EPA Region VII Resource Conservation and Recovery Act (RCRA) programs in Iowa. This program (8591-9NS00) is operated on a reimbursable basis through supplemental appropriations to the MOU. Expenditures are estimated to be about \$160,000 per year and occupy about 1 full FTE. Funding for Other Federal Agency program in the Studies program has historically increased beyond anticipated levels with little advance notice.

Anticipated Problems in Keeping Studies on Schedule - The Studies Program has one project that is severely behind schedule. The study is a ground-water flow model of the upper bedrock aquifers in the Johnson County/Iowa City area. This project, which took several years to develop, began at the same time as the experienced ground-water modeler in the Studies Section transferred to another office. At the time this occurred, it was felt that the timeline of the project would suffer if a recruitment and possible training of an inexperienced new modeler was attempted. The option selected was to utilize the skills of an experienced modeler from within the agency. This has not worked as well as anticipated due to scheduling conflicts of the detailed modeler.

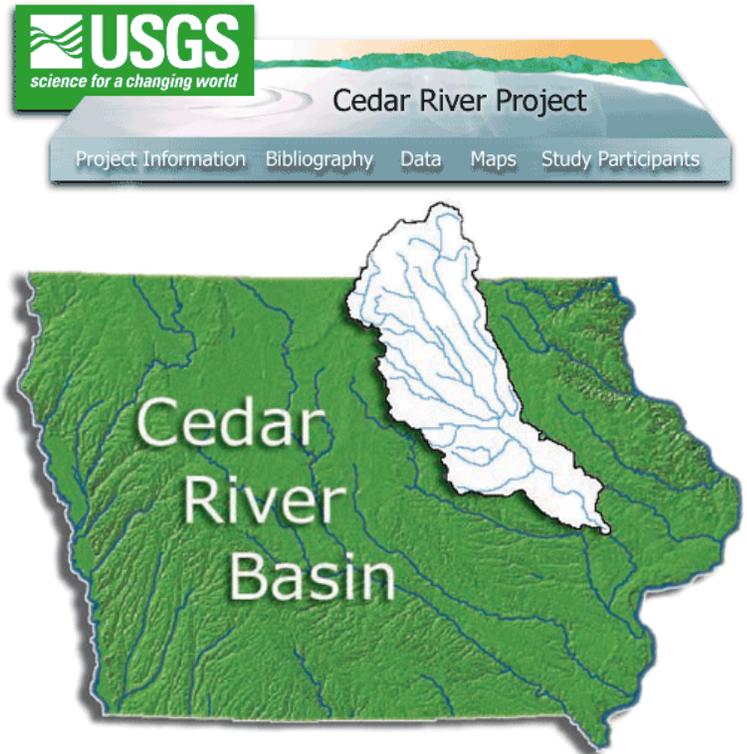
Selected Study Successes

The Center has study successes in each of the major funding categories. Examples of these successes follow.

Cooperative Water Program: Several years of watershed study on the time of travel and fate and transport of nitrogen in the Cedar River between Waterloo and Cedar Rapids, which has been funded by the City of Cedar Rapids, appears to be poised to lead to additional program in the area of TMDL water-quality modeling on the Cedar River and other rivers in the future.

Federal Program: Work by Dana Kolpin on emerging contaminants (8591-9OK00) funded by the Toxic Substances Hydrology Program continues to receive national and international visibility. Dana has succeeded in presenting the results of his efforts via oral presentations and written report products. Dana is spending increasing amounts of his time on emerging contaminants and less time on pesticides, which provided the foundation of much of his earlier success.

Other Federal Agency Program: Iowa's participation in the U.S. Environmental Protection Agency's Midwestern Landscape Investigations for Pesticides Study (LIPS) during FY2004 and FY2005 has expanded our database of pesticide occurrence in small streams across Iowa. The data, when interpreted, may reveal some new findings of the occurrence of pesticides, particularly as they relate to landscape setting. The program also had the additional benefit of providing additional samples to the ongoing CRISP perchlorate study.



Technical Concerns

The technical concern is the Center's ability to successfully complete the ground-water model for the Johnson County study. As discussed above in the section "Anticipated Problems in Keeping Studies on Schedule", the project is substantially both over budget and behind schedule due to apparent technical challenges in modeling the ground-water system. There is serious concern that the non-Center USGS employee completing the model will not be able to complete the model within a reasonable time frame; the cooperator is being updated on the status but is increasingly impatient for completion and results of the study. The technical concern includes the ability of the non-Center employee to complete the model and the need to meet cooperator's need for a timely completion of the model.

UNRESOLVED TECHNICAL ISSUES

Please see the discussion above under "Technical Concerns". The unresolved technical issue been addressed with progress using Center employees to move forward on the model as the non-Center employee responsible for the completion of the model has not been able to allocate time and resources to complete their commitment.



III. ADMINISTRATIVE ISSUES

AGREEMENTS NOT FULLY EXECUTED

Of the 29 Joint Funding Agreements processed in Fiscal Year 2005, all have been completed and/or signed as of 2/14/05. One Joint Funding Agreement will be set up early March for work to begin in early April. All currently known Fiscal Year 2006 JFAs for ongoing projects will be processed within the last quarter of FY2005 in order to be fully signed and executed before 10/1/06.

Joint Funding Agreements in FY2004 not completed and/or signed as of March 1, 2005

(Center does not have any agreements that have not been completed or signed for current work)

Agreement Number	Project Number	Customer Name	Amount	Status	Total of Unsigned Amounts

BILLING DELINQUENCIES AND EARNED/UNBILLED BALANCES

Billing Delinquencies and Earned/Unbilled Balances as of March 1, 2005

(Center does not have any billing delinquencies or earned/unbilled balances as of March 1, 2005)

Budget Year	Agreement Number	Project Number	Customer Name	Amount	Status

WORKING CAPITAL FUND (WCF)

A financial plan for the WCF (Working Capital Funds) accounts for the Center was completed in February 2005 to effectively utilize past investments for making \$260,000 in strategic purchases of technical equipment for future program requirements and development. The technical equipment include four vehicles (\$110,000 for two fully-equipped water-quality mobile laboratories and \$40,000 for two field vehicles), streamflow monitoring equipment (\$90,000), and information technology equipment (\$20,000 for NWIS servers). The WCF accounts have been reduced from four to two accounts, closing the drilling equipment and streamgaging equipment accounts, with a planned balance of about \$100,000 in WCF accounts by the end of FY2005.

Status of Working Capital Funds in the Center as of March 1, 2005

Agreement Number	IA9605100		IA9605200		IA9805300		IA9805800	
Purpose	Drilling Equipment		Motor Vehicles		Streamgaging Equipment		Computer Equipment	
Customer No.	25501		25501		25501		25501	
Component	4556E		4556E		4556E		4556E	
Gaining Account	8591-0AE38		8591-0AE23		8591-0AE66		8591-0AE70	
Start Date	1996		1996		1998		1998	
End Date	2005		2010		2005		2010	
Contribution Year and Amount*	1996	\$5,000	1996	\$300,000				
	1997	\$5,000	1997	\$100,000				
	1998	\$5,000	1998	\$50,000	1998	\$15,000	1998	\$30,000
	1999	\$0	1999	\$50,000	1999	\$0	1999	\$30,000
	2000	\$5,000	2000	\$25,800	2000	\$15,000	2000	\$30,000
	2001	\$0	2001	\$90,000	2001	\$45,000	2001	\$0
	2002	\$0	2002	\$0	2002	\$15,000	2002	\$0
	2003	\$100,000	2003	(\$300,000)	2003	\$150,000	2003	\$0
	2004	\$0	2004	\$0	2004	\$0	2004	\$0
	2005	(\$103,453)	2005	\$83,453	2005	\$0	2005	\$20,000
Status	CLOSED		ACTIVE		CLOSED		ACTIVE	
Total Contribution	\$16,547		\$399,253		\$240,000		\$110,000	
Expenditure to Date	(\$16,547)		(\$214,352)		(\$149,006)		(\$25,806)	
Planned FY2005 Expenditures	\$0		(\$150,000)		(\$90,994)		(\$20,000)	
Balance Available	\$0		\$34,901		\$0		\$64,194	

*Contribution years FY2003 and FY2005 involved redistribution of funds to consolidate accounts

PROCUREMENT

There are no ratifications pending for FY2005. There has been no Contracting Officer for the Center since June 30, 2004. A new employee was hired January 10, 2005, who has a solid background in contracting. There will be no Warranted Contracting Officer for Iowa since the implementation of IDEAs. Our contracting person will still be receiving training and will be responsible for putting together the DI-1s and documentation packages which will be sent to another office with a Warranted Contracting Officer for processing in support for the Center.

Bankcards

All bankcards are sent to the card holders for review, receipts and log sheet attachment, then signed and dated. The approving official then reviews, signs and dates the statement. The Administrative Section then processes/adjusts the statement within FFS if needed. The Center monitors all delinquencies as soon as they arise. Bank card training is accomplished in a timely manner each year.

Issues regarding contracts, purchase orders, grants, etc.

The Center's Contracting Officer transferred to the Texas Water Science Center in June 2004. There were no employees in the Admin section who could assume her duties. The Center has recently hired a new employee and all bills and payments within FFS are very prompt, and free of errors. The Center now has two Administrative employees who are capable of paying purchase orders and other invoices.

HUMAN RESOURCES

In FY2005, physical fitness reimbursement continues to grow. There are currently 8 employees participating in the program. The Center anticipates this will increase by FY2006. The staff at the Regional Personnel Office continues its outstanding support for the Center during the past year as we filled vacancies, and completed personnel actions such as promotions, reassignments, etc. Current staffing vacancies are in concurrence with the "Workforce Planning" section of this document. New performance plans are being completed by the Center in compliance with GPRA and the 5-tier performance plan initiative. The Center will be hiring a new Gateway internship student in May 2005. No retirements are planned for FY2005. The Center's FTE is currently 38.97.

SPACE AND FACILITIES

The Center is currently reviewing and analyzing space in Iowa City, Council Bluffs and Fort Dodge for the purpose of reducing and reassigning space that will ultimately reduce the cost of facilities and maximize operations efficiency. The Iowa City office will be releasing about 1,400 square feet of office space in FY2005 for a saving of about \$20,000 annually. Since the cost of the Iowa City office space will rise in FY2006 by about \$51,000 due to an undercharging error in the past by the General Services Administration; the savings from the released space will offset the anticipated increase in rent by about 40 percent.

TRAVEL

No PCS moves occurred in FY2004; the current Administrative Officer vacancy includes relocation expenses that could occur in FY2005.

PROPERTY

There are currently no property issue/problems. We are in the process of purchasing motor vehicles out of our Working Capital Fund.

IV. MANAGEMENT ISSUES

A. HUMAN RESOURCES



The workforce planning efforts have been focused on ensuring that all personnel are fully funded while ensuring the Center has and will have the appropriate range of skills and abilities to address the emerging science issues being outlined in the Center's science plan. Planned new hires in FY2005 include an Administrative Operations Assistant, three Hydrologic technicians, and two Hydrologists; the new hires are, in part, replacements for an Administrative Operations Specialist that transferred, two hydrologic technicians that retired, one Hydrologic Technician who transferred, and a Hydrologist who transferred. The new contract employee is an intern that is being paid for by the University of Iowa so as to obtain experience in using GIS in environmental

applications. The other two contract hires are rehired employees who retired in late 2004 to assist with field and office work on an intermittent basis until September 2005. A ground-water modeler from the Yucca Mountain Project has been working on the Center's project for the past two years; a hydrologist within the Center is currently being trained as a ground-water modeler for future projects. All report processing has been contracted to other Centers including the editorial review, illustrations, and printing of reports; the use of outside Centers for reports processing has been very successful for over 20 years. The future workforce needs will likely include skills in understanding the impacts of agricultural chemicals on water resources, water-quantity and quality field data collection and data analysis, geographical information system data collection and analysis, and ground-water flow modeling and analysis. These future needs are based upon the proposed Science Plan and the anticipated program increase in the areas of Total Maximum Daily Loads and agricultural impacts on water quality.

Permanent and Non-permanent Employees

Type	Permanent, full-time	Permanent, part-time	Term	Student	Contract
Number	38	0	2	3	3

Number of diverse employees and progress towards diversity

Under-represented (UR) Job Series	Title	Total # of Employees in Series	Total # of UR Employees in Job Series	% UR of Total	Change in # UR Employees since 10/1/03
0303	Miscellaneous Clerk/Assistant	2	1	50%	-1*
1315	Hydrologist	14	1	7%	0
1316	Hydrologic Technician	19	3	16%	-4**
1371	Cartographic Tech.	0	0		
Total # Employees in UR Series		35	5	14%	-5
Total # Center Employees in All Series		39***	5	13%	-5

* The loss was a replacement of a diverse employee who transferred to another Center with a non-diverse new hire.

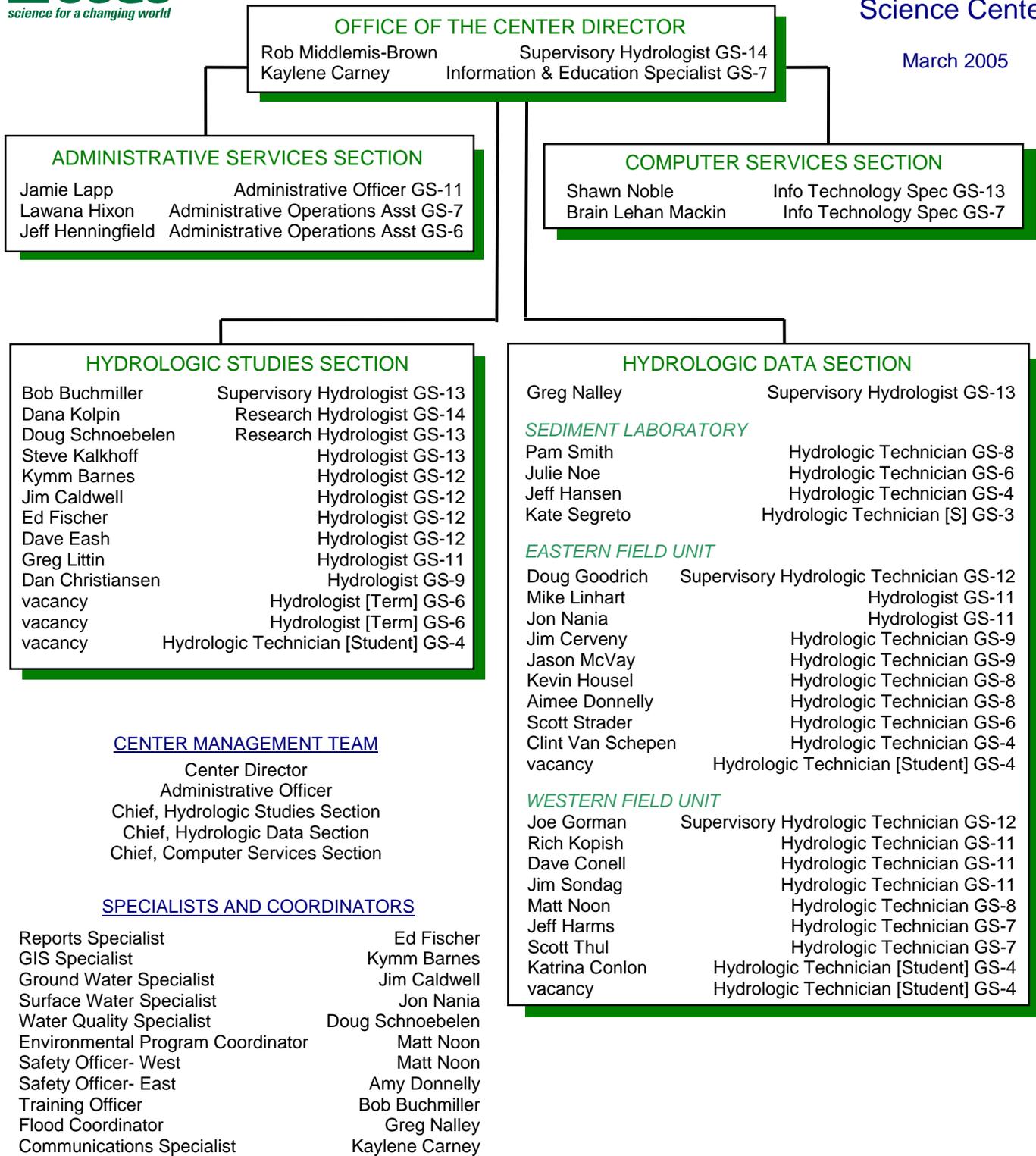
** The loss was the appointment expirations of four diverse student employees due to low funding in FY2004.

*** Total does not include the current vacancies being filled as of March 1, 2005

Current Contract and Planned Contract Employees

Name	Start Date	End Date	Hiring Source	Purpose of Work
Kris Lund	November 2004	January 2005	University of Iowa	GIS
Al Conkling	August 2004	September 2005	Rehire Retiree	occasional field/office work
Von Miller	August 2004	September 2005	Rehire Retiree	occasional field/office work

March 2005



B. INFORMATION DISSEMINATION

Reports



The Center does not have a publication section and relies on publication personnel from other offices to provide final report processing, camera-ready formatting, and publishing services. Overall, the system has worked well and the Center has utilized several publication units within the Central Region to provide the above services. Authors are expected to prepare clear and legible draft manuscripts suitable for technical review and regional approval.

The Center has recently documented what had been informally understood as the report review and approval process. The document defines the role of the report author and illustrates the steps to attaining report approval. The document is listed on the Intranet at <http://sw2diaiwc.cr.usgs.gov/usgs/reports/rrap.pdf>

Currently (2-1-05), there are no reports being processed for which funding has expired. Table 2 is a list of reports published in the calendar year 2004. Table 3 is a summary of report production from FY2000 to FY2004. Table 4 lists the reports that are past due as of January 1, 2005. Table 5 is a list of reports approved but not published.

Table 2—Information Products Published during Calendar Year 2004

Published Report Name	Source of Funds	Report Series	Delivery Dates	
			Planned	Actual
Aquifer vulnerability to pesticide pollution, combining soil, land- use and aquifer properties with molecular descriptors	FED	Journal		3/04
Pharmaceuticals and other organic wastewater contaminants within a leachate plume downgradient of a municipal landfill	FED	Journal		5/04
Do pharmaceuticals, pathogens, and other organic wastewater compounds persist when wastewater is used for recharge?	FED	Journal		5/04
Flood of June 4, 2002, in the Indian Creek Basin, Linn County, Iowa	COOP	OFR		6/04
Riverbed Elevations and Water Quality of the Missouri River at Sioux City, Iowa, 2002-03	COOP	SIR		6/04
Pesticide degradates: Monitoring and occurrence: Proceedings of International symposium on pesticides, their degradates, and adjuvants	FED	Conference Proceedings		6/04
Flood of June 4-5, 2002, in the Maquoketa River Basin, east-central Iowa	COOP	OFR		8/04
Quality of Ground Water Used for Selected Municipal Water Supplies in Iowa, 1997-2002 Water Years:	COOP	OFR		8/04
Degradates provide insight to spatial and temporal distribution of herbicides in ground water	FED	Journal		8/04
Determination of pharmaceutical compounds in surface- and ground-water samples by solid-phase extraction and high-performance liquid chromatography/electrospray ionization mass spectrometry	FED	Journal		8/04
Urban contribution of pharmaceuticals and other organic wastewater contaminants to streams during differing flow conditions	FED	Journal		8/04
When synthetic chemicals degrade in the environment	FED	Journal		8/04
Simulation of Ground-Water Flow in the Cedar River Alluvial Aquifer Flow System, Cedar Rapids, Iowa	COOP	SIR		9/04
Occurrence of human pharmaceuticals in water resources in the United States: A review: in Kummerer, K. (ed), Pharmaceuticals in the environment: Sources, fate, effects, and risks	FED	Book		9/04
Occurrence of antibiotics, pharmaceuticals and sterols at select surface and wastewater sites in Iowa	FED	Conference Proceedings		10/04
Temporal occurrence and persistence of pharmaceuticals, pathogens, and other wastewater compounds in an effluent-dependent stream, Tuscon, Arizona	FED	Conference Proceedings		10/04
Persistence of pharmaceuticals and other wastewater related compounds	FED	Conference Proceedings		10/04
Isomeric composition of tetracycline antibiotics in liquid manure at a swine animal feeding operation in Iowa	FED	Conference Proceedings		10/04
Presence and distribution of organic wastewater compounds in wastewater, surface, ground, and drinking waters, Minnesota, 2000-02	FED	SIR		10/04
Pharmaceuticals, hormones, and other organic wastewater contaminants in ground water resources.	FED	Conference Proceedings		11/04

Table 3—Summary of Report Production for Fiscal Years 2000 through 2004

FY	Interpretative Reports	Non-interpretive/Data Reports	Abstracts	Fact Sheets	Journal Articles	Oral/Poster Presentations	Total
2004	3	3	15	0	16	23/0	60
2003	3	1	16	0	6	unknown	26
2002	4	1	7	1	6	unknown	19
2001	11	2	6	2	1	unknown	22
2000	13	1	4	3	5	unknown	26

Table 4—Status of Past-Due Reports as of January 1, 2005

(The Center does not have any past-due reports)

Project Number	Project End Date	Report Title and Authors	Report Series	Reason for Being Late: Status and Plans to Complete	Estimated Delivery Date

Table 5—Status of Reports Approved, but not yet Delivered

Project Number	Report Title; Authors; Publication Number	Date Approved	Status	Estimated Delivery Date
85919OK	Transport chemical and microbial compounds from known wastewater discharges: Potential for use as indicators of human fecal contamination; Glassmeyer and others; Journal	02/03	In review at journal	unknown
85919OK	Use of qualitative and quantitative information in agricultural chemical assessment of rural domestic wells: Mishra and Kolpin; Journal	07/03	In press at journal	4/05
85919OK	Widespread detection DEET in U.S. streams: comparison with pesticides, personal care products, and other organic wastewater contaminants: Sandstrom, Kolpin, Zaugg, and Thurman; Journal	05/04	In press at journal	5/05
85919OK	Urban contributions of glyphosate and its degradate AMPA to streams in the United States: Kolpin and others; Journal	08/04	In press at journal	7/05
85919OK	Herbicides and their degradates in shallow aquifers of Illinois: Mills, Kolpin, Scribner, and Thurman; Journal	09/04	In press at journal	6/05

Center Website

The Center has one web server that provides internal (USGS) data and one web server that provides external products such as NWIS data and reports to the internet. The two web servers are running Apache Server on a Sun Ultra 5 workstation running Solaris 8. The websites are maintained by the Computer Services Section (CSS) of the Center. Some users are given access to specific web areas so they can make changes to their web pages. Most web postings are given to the CSS to perform web updates. The Center plans to move the external web server to the NatWeb system. Web pages that will be accessible externally must be approved by the Center Chief.

Dissemination of Products/Information that has Made a Difference

Articles published such as “Occurrence of antibiotics, pharmaceuticals and sterols at select surface and wastewater sites in Iowa” and “Isomeric composition of tetracycline antibiotics in liquid manure at a swine animal feeding operation in Iowa” continue to draw attention of both the scientific community and the public. The increased awareness of the chemicals being introduced in the environment that affect human health has been the result of these and other published findings in journals, newspapers, and oral presentations at both technical and non-technical meetings.

C. FUNDING



Funding levels from FY2005 to FY2006 is anticipated to change with an increase in the level of funding in the Federal program, Federal-State Matching funding remaining level, a substantial increase in unmatched reimbursable funding within the Federal-State Cooperative Program, and a decrease in the Other Federal Agency funding. The increased Federal Funding is for the Eastern Iowa Basins NAWQA unit as the study unit begins the second cycle's high intensity phase in FY2006 as part of the ACT topical team. The increase in unmatched reimbursable Federal-State Cooperative Program funding is due to the implementation of the 55/45 match ratio policy for new projects starting FY2005. The Other Federal Agency funding has a decrease in FY2006 as the DODEC program funding decreases and the EMAP and LIPS projects end in FY2005.

Table 6—Center gross funding by source and totals for Fiscal Years 2002 through 2006

Fiscal Year	Federal Program	Federal Coop	Coop - Matched	Coop - Unmatched	Direct Services	OFA	Other*	TOTAL	Annual Changes
2006	\$1,317,044	\$723,260	\$995,577	\$277,653	\$0	\$1,372,702	\$102,500	\$4,788,736	\$-104,787
2005	\$1,156,816	\$723,260	\$995,577	\$213,688	\$50,000	\$1,468,912	\$285,270	\$4,893,523	\$311,764
2004	\$1,147,969	\$751,060	\$1,003,807	\$77,838	\$0	\$1,444,611	\$156,474	\$4,581,759	\$51,926
2003	\$1,150,496	\$747,745	\$942,158	\$54,253	\$0	\$1,357,559	\$277,622	\$4,529,833	\$459,314
2002	\$1,079,450	\$841,133	\$1,031,133	\$82,042	\$0	\$1,015,852	\$20,909	\$4,070,519	-----

* includes Venture Capital Funds (2002), Working Capital Funds (2003-2006), and Facilities O&M (2003-2006)

Table 7—Center gross funding by activity, totals for Fiscal Years 2002 through 2006, and Data/Studies split for the Coop program

Fiscal Year	Total Data Program	Total Studies Program	NAWQA	Other*	TOTAL	Coop Split Data/Studies
2006	\$2,553,731	\$1,480,000	\$500,000	\$255,000	\$4,788,736	55/45
2005	\$2,528,184	\$1,570,466	\$369,600	\$425,270	\$4,893,523	53/47
2004	\$2,594,227	\$1,409,234	\$283,160	\$295,137	\$4,581,758	56/44
2003	\$2,380,716	\$1,380,404	\$359,152	\$409,561	\$4,529,833	60/40
2002	\$2,275,751	\$1,250,246	\$410,735	\$133,787	\$4,070,519	57/43

* includes Federal facilities funds, Venture Capital Funds (2002), and Working Capital Funds (2003-2006)

Table 8—Center gross funding by FTE for Fiscal Years 2002 through 2006

Fiscal Year	Total Gross Funding*	FTE Usage	FTE Change from Previous Year	Funding per FTE
2006	\$4,948,736	38.99	0.02	\$126,923
2005	\$5,043,523	38.97	-2.46	\$129,421
2004	\$4,741,758	41.43	-0.73	\$114,452
2003	\$4,689,833	42.16	-0.55	\$111,239
2002	\$4,224,519	42.71	----	\$98,912

* includes Sediment Laboratory SV income

Table 9a—Customer Funds Report by Account, Fiscal Years 2005 (not including Working Capital Funds)

ACCNT NO /PRJ CODE	SHORT PRJ NAME	FED FUNDING	NON-DIRECT/NON-REIMB	OFA FUNDING	REPAY	DIRECT SERVICES	UNMATCHED	FED MATCH	OFA MATCH	TOTAL FUNDING
8691001	SW Program*	\$163,090		\$916,790	\$435,128		\$158,286	338,273		\$2,011,567
8691002	GW Program	\$5,135			\$6,000			\$4,359		\$15,494
8591003	QW Program	\$78,750								\$78,750
8591004	Sediment			\$195,000						\$195,000
8591005	NADP	\$6,000								\$6,000
8591006	Crest-Stage				\$65,544		\$14,342	\$46,889		\$126,775
85919BI	NAWQA	\$369,600								\$369,600
8591976	NWIS Support	\$48,911								\$48,911
85919MO	Cedar River				\$100,350		\$22,300	\$72,902		\$195,552
85919MT	GW QW				\$111,200		\$24,750	\$80,784		\$216,734
85919NR	Floods				\$67,250		\$14,900	\$48,565		\$130,715
85919NS	RCRA			\$155,000						\$155,000
85919NT	DODEC			\$89,090						\$89,090
85919OK	Toxics	\$250,000								\$250,000
85919ZF	CAPP Support	\$60,079								\$60,079
8591AOP	Iowa LIPS			\$24,000						\$24,000
8591BBE	Big Rivers				\$160,105		\$29,110	\$95,164		\$284,379
8591BFM	EMAP			\$89,032						\$89,032
8591BGR	CRISP	\$25,000								\$25,000
8591OMC	Oper & Maint	\$2,500								\$2,500
8591REN	Rent	\$140,000								\$140,000
8591XXX	Real-Time QW*	\$10,251				\$50,000		\$36,324		\$96,575
8591OAE	WCF		\$282,770							\$282,770
Totals		\$1,159,316	\$282,770	\$1,468,912	\$945,577	\$50,000	\$263,688	\$723,260	\$ 0	\$4,893,523

*includes \$10,251 in Flexibility Funds

Table 9b—Customer Funds by Customer, Fiscal Years 2005

CUST NO	CUSTOMER NAME	FED FUNDING	NON-DIRECT/NON-REIMB	OFA FUNDING	REPAY	DIRECT SERVICES	UN-MATCHED	FED MATCH	OFA MATCH	TOTAL FUNDING
OP4XX	Federal - USGS	\$1,159,316	282,770							\$1,442,086
9X401	Corps of Engineers			\$840,995						\$840,995
350XX	Corps of Engineers (MIPR)			\$270,795						\$270,795
32077	Department of Defense			\$89,090						\$89,090
51007	USEPA			\$268,032						\$268,032
IA001	Iowa DOT				\$198,144		\$44,417	143,750		\$386,311
IA002	Iowa State University				5,600		\$1,250	\$4,068		\$10,918
IA004	Iowa DNR - IGS				\$445,645		\$108,832	\$360,260		\$914,737
IA005	University of Iowa				\$10,155		\$3,862	\$7,378		\$21,395
IA006	City of Cedar Rapids				\$105,950		\$23,550	\$76,973		\$206,473
IA007	City of Fort Dodge				\$3,249		\$722	\$2,360		\$6,331
IA011	City of Des Moines				\$22,400		\$29,900	\$16,274		\$68,574
IA034	City of Davenport				\$11,200		\$2,500	\$8,137		\$21,837
IA035	City of Ames				\$5,600		\$1,250	\$4,068		\$10,918
IA037	City of Clinton				\$12,800		\$14,070	\$9,299		\$36,169
IA038	City of Sioux City				\$10,250		\$2,300	\$7,447		\$19,997
IA039	City of Coralville				\$5,895		\$1,318	\$4,283		\$11,496
IA041	City of Iowa City				\$5,895		\$1,318	\$4,283		\$11,496
IA042	City of Marshalltown				\$3,112			\$2,261		\$5,373
IA044	City of Charles City				\$3,250		\$785	\$2,361		\$6,396
IA046	City of Waterloo				\$5,600		\$1,250	\$4,068		\$10,918
IA048	Des Moines Water Works				\$7,511		\$9,560	\$5,457		\$22,528
IA054	City of Cedar Falls				\$2,800		\$630	\$2,034		\$5,464
IA065	City of Bettendorf				\$1,121		\$249	\$815		\$2,185
IA071	City of Decorah				\$5,600		\$1,250	\$4,068		\$10,918
IA072	Buchanan County EMA				\$2,800		\$625	\$2,034		\$5,459
IA078	City of Waverly				\$5,600		\$1,250	\$4,068		\$10,918
IA081	IDNR - WQ Bureau				\$51,000		\$10,000	\$37,052		\$98,052
IA083	City of Milford				\$14,400		\$2,800	\$10,462		\$27,662
Totals		\$1,159,316	\$282,770	\$1,468,912	\$945,577	\$50,000	\$263,688	\$723,260	\$ 0	\$4,893,523

Table 10—Federal CBR program, Fiscal Years 2005 and 2006

Account Number	Federal Program Title	FY2005 Funding	FY2006 Funding
001	SW Stations	\$163,090	\$163,090
002	GW Stations	\$5,135	\$5,135
003	QW Stations	\$78,750	\$78,750
004	Sediment Stations	\$0	\$0
005	Atmospheric Deposition Stations	\$6,000	\$6,000
TOTAL		\$252,975	\$252,975

Table 11—Projects to be completed in Fiscal Year 2005

Project Number	Project Name	Customer Number	Customer Name (source of funding)	Funding Amount	Plans for Reprogramming Coop Funds
85919NV	Johnson County GW model	IA081	Iowa DNR (COOP)	\$10,359	\$4,359 available
85919BI	NAWQA Pesticide synthesis	OP41120	USGS (FED)	\$11,500	
8591AOP	EPA LIPS	50025	EPA (OFA)	\$24,000	
8591BFM	Missouri River EMAP	50119	EPA (OFA)	\$89,032	
8591BGR	Crisp Perchlorate	OP72030	USGS (FED)	\$25,000	

Table 12—DOI Cost-Share Program, Fiscal Year 2005 Usage

(Center did not have any DOI agencies willing to participate in the DOI Cost-Share Program during Fiscal Year 2005)

Project Number	Short Project Name	Name of DOI Customer	Data or Study	Funds from DOI	Cost-Share Funds	End Date

D. BUDGET



The summary of Center expenditures for FY2002 through FY2006 is listed by major object-class code in Table 13; actual expenditures are given for FY2002 through FY2004 while estimates are given for FY2005 and FY2006. The Center's common services budget and burden rates for FY2005, as approved by BFS and currently in BASIS+, are also provided.

Table 13—Summary of Center Expenditures, Fiscal Years 2002 through 2006

Object Class Description	FY 2002	%	FY 2003	%	FY 2004	%	FY 2005	%	FY 2006	%
Full-Time Permanent	\$1,735,638	42.7%	\$1,996,179	44.2%	\$2,118,474	46.3%	\$2,355,390	49.2%	\$2,395,400	50.1%
Other Than Full-Time Permanent	\$187,779	4.6%	\$135,473	3.0%	\$39,768	0.9%	\$46,500	1.0%	\$46,900	1.0%
Overtime	\$19,538	0.5%	\$23,525	0.5%	\$25,549	0.6%	\$24,100	0.5%	\$23,500	0.5%
Awards - Monetary	\$18,655	0.5%	\$22,750	0.5%	\$25,750	0.6%	\$30,000	0.6%	\$29,000	0.6%
Other Personnel Compensation	\$0	0.0%	\$943	0.0%	\$592	0.0%	\$700	0.0%	\$810	0.0%
Special Personal Services Payment	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%		0.0%
Civilian Personnel Benefits	\$501,671	12.3%	\$582,433	12.9%	\$595,082	13.0%	\$618,200	12.9%	\$620,100	13.0%
Benefits for Former Personnel	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%		0.0%
Subtotal Salaries & Benefits	\$2,463,281	60.6%	\$2,761,302	61.1%	\$2,805,214	61.3%	\$3,074,890	64.2%	\$3,115,710	65.1%
Travel & Transportation of Persons	\$122,364	3.0%	\$169,798	3.8%	\$112,001	2.4%	\$113,500	2.4%	\$110,500	2.3%
Transportation of Things	\$7,249	0.2%	\$23,976	0.5%	\$7,043	0.2%	\$18,610	0.4%	\$15,200	0.3%
Rental Payments to GSA	\$212,856	5.2%	\$237,058	5.2%	\$265,350	5.8%	\$288,000	6.0%	\$300,000	6.3%
Rental Payments to Others	\$53,082	1.3%	\$58,423	1.3%	\$58,558	1.3%	\$61,000	1.3%	\$46,100	1.0%
Communication, Utilities, Misc Charge	\$121,800	3.0%	\$124,116	2.7%	\$81,364	1.8%	\$83,750	1.7%	\$79,900	1.7%
Printing & Reproduction	\$0	0.0%	\$6,558	0.1%	\$3,954	0.1%	\$12,500	0.3%	\$6,000	0.1%
Advisory & Assistance Services	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$16,000	0.3%	\$0	0.0%
Training	\$5,240	0.1%	\$29,332	0.6%	\$65	0.0%	\$45,000	0.9%	\$45,000	0.9%
Other Services (Less Training)	\$67,534	1.7%	\$72,628	1.6%	\$67,094	1.5%	\$75,100	1.6%	\$76,100	1.6%
Purchases of Goods and Services	\$179,289	4.4%	\$159,605	3.5%	\$164,104	3.6%	\$174,000	3.6%	\$174,000	3.6%
Operation & Maintenance-Facilities	(\$214)	0.0%	\$0	0.0%	\$33	0.0%	\$2,500	0.1%	\$2,500	0.1%
Research & Development Contracts	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Medical Care	\$0	0.0%	\$0	0.0%	\$1,380	0.0%	\$3,000	0.1%	\$2,500	0.1%
Operation & Maintenance-Equipment	\$61,874	1.5%	\$24,825	0.5%	\$11,557	0.3%	\$28,150	0.6%	\$28,550	0.6%
Supplies & Materials	\$223,953	5.5%	\$164,232	3.6%	\$205,381	4.5%	\$211,500	4.4%	\$210,000	4.4%
Equipment	\$151,916	3.7%	\$429,866	9.5%	\$492,622	10.8%	\$310,000	6.5%	\$300,000	6.3%
Land & Structures	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Investments and Loans	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Grants, Subsidies, Contributions	\$0	0.0%	\$0	0.0%	\$48,540	1.1%	\$0	0.0%	\$0	0.0%
Insurance Claims/Refunds	\$0	0.0%	\$0	0.0%	\$2,059	0.0%	\$4,200	0.1%	\$3,000	0.1%
Interest & Dividends	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%
Discipline/Bureau Burden	\$397,865	9.8%	\$257,825	5.7%	\$246,851	5.4%	\$265,400	5.5%	\$269,500	5.6%
Subtotal All Other	\$1,604,808	39.4%	\$1,758,241	38.9%	\$1,767,957	38.7%	\$1,712,210	35.8%	\$1,668,850	34.9%
TOTAL EXPENDITURES	\$4,068,089		\$4,519,543		\$4,573,171		\$4,787,100		\$4,784,560	

Center Distributed Direct Science Services Calculations for FY2005

	Science Service	Account Class 1 All Projects	
	Actual Net Cost to distribute	% of actual cost to distribute by act. Class	Portion of Cost by Account Class
Office Management:			
Cost Center Chief	\$0	100.00%	\$0
Section Chief - Studies	\$119,434	100.00%	\$119,434
Section Chief - Data	\$108,743	100.00%	\$108,743
Administration:			
Administrative Officer	\$0	100.00%	\$0
Operations:			
Awards	\$0	100.00%	\$0
Safety Activities	\$0	100.00%	\$0
Computer Support:			
System Administrator	\$95,400	100.00%	\$95,400
Computer Specialist	\$54,476	100.00%	\$54,476
Travel to field offices	\$3,000	100.00%	\$3,000
Training	\$3,000	100.00%	\$3,000
Other Contract Services Software Licenses/phone/etc.	\$0	100.00%	\$0
Software Acquisition and Development	\$3,000	100.00%	\$3,000
Network Telecom Charges	\$36,061	100.00%	\$36,061
ADP Equipment	\$30,000	100.00%	\$30,000
Local Laboratories:			
Laboratory Operations (common)	\$1,500	100.00%	\$1,500
Program Development and Planning:			
Program Development and Planning	\$97,000	100.00%	\$97,000
Specialists - Technical Support:			
Discipline Specialists - GW (15%)	\$8,995	100.00%	\$8,995
Discipline Specialists - SW (15%)	\$6,830	100.00%	\$6,830
Discipline Specialists - WQ (20%)	\$20,327	100.00%	\$20,327
Discipline Specialists - GIS (20%)	\$12,481	100.00%	\$12,481
Database Manager - GIS (10%)	\$4,909	100.00%	\$4,909
Travel for National Specialist Meetings	\$7,000	100.00%	\$7,000
Total Net Costs to Distribute:	\$612,156		\$612,156
Total Net Funding by Account Class:			\$2,356,412
Percentage to Distribute by Account Class:			26.0%

Center Burden Rates for FY2005

Burden Rate Category	Burden Funding	Rates	
		Gross	Net
Total Faculties-Related Indirect Costs	\$360,630		11.01%
Total Common Services Indirect Costs	\$552,812	14.44%	16.87%
Total Common Services Distributed Direct Costs	\$612,156		26.00%
Bureau Rate		12.00%	
Special Bureau Rate [not utilized]		3.00%	
Special Center Rate [not utilized]		3.00%	

Fiscal Year 2005 Center Common Services Budget

Category	Total Eligible Common Services Costs	Direct Costs (charged to specific accounts)	Distributed Direct Costs (distributed to a set of specific accounts)	Common Services Indirect Costs
Office Management:	\$348,884	\$0	\$228,177	\$120,707
Cost Center Chief	\$120,707	\$0	\$0	\$120,707
Section Chief - Studies	\$119,434	\$0	\$119,434	\$0
Section Chief - Data	\$108,743	\$0	\$108,743	\$0
Administration:	\$163,386	\$0	\$0	\$163,386
Administrative Officer	\$67,192	\$0	\$0	\$67,192
Administrative Operation Specialist	\$55,269	\$0	\$0	\$55,269
Administrative Operations Assistant	\$40,925	\$0	\$0	\$40,925
Operations:	\$53,000	\$0	\$0	\$53,000
Travel	\$13,000	\$0	\$0	\$13,000
Postage and Shipping	\$1,000	\$0	\$0	\$1,000
Employee Assistance	\$1,500	\$0	\$0	\$1,500
Awards	\$30,000	\$0	\$0	\$30,000
Safety Activities	\$5,000	\$0	\$0	\$5,000
Tort Claims (first \$2500 per claim)	\$2,500	\$0	\$0	\$2,500
Computer Support:	\$224,937	\$0	\$224,937	\$0
System Administrator	\$95,400	\$0	\$95,400	\$0
Computer Specialist	\$54,476	\$0	\$54,476	\$0
Travel to field offices	\$3,000	\$0	\$3,000	\$0
Training	\$3,000	\$0	\$3,000	\$0
Other Contract Services Software Licenses/phone/etc.	\$0	\$0	\$0	\$0
Software Acquisition and Development	\$3,000	\$0	\$3,000	\$0
Network Telecom Charges	\$36,061	\$0	\$36,061	\$0
ADP Equipment	\$30,000	\$0	\$30,000	\$0
Local Laboratories:	\$1,500	\$0	\$1,500	\$0
Laboratory Operations (QA/QC analytical samples)	\$1,500	\$0	\$1,500	\$0
Outreach:	\$66,861	\$0	\$0	\$66,861
Travel to meetings/conferences	\$4,000	\$0	\$0	\$4,000
Exhibit Booth/Conferences	\$3,000	\$0	\$0	\$3,000
Technical Advisor for exhibits (80 hours)	\$3,443	\$0	\$0	\$3,443
Public Affairs/Information Officer	\$56,418	\$0	\$0	\$56,418
Training (Travel and Tuition):	\$59,000	\$0	\$0	\$59,000
Mandatory Training	\$10,000	\$0	\$0	\$10,000
General Training	\$3,000	\$0	\$0	\$3,000
Technical Training	\$46,000	\$0	\$0	\$46,000
Communications Systems:	\$47,000	\$0	\$0	\$47,000
Telecommunications (FTS 2001)	\$28,000	\$0	\$0	\$28,000
Local Telephones	\$15,000	\$0	\$0	\$15,000
Field Cellular Telephones	\$4,000	\$0	\$0	\$4,000
Program Development and Planning:	\$97,000	\$0	\$97,000	\$0
Program Development and Planning	\$97,000	\$0	\$97,000	\$0
Office and Production Supplies:	\$7,200	\$0	\$0	\$7,200
Office Supplies	\$5,500	\$0	\$0	\$5,500
Production Supplies	\$1,700	\$0	\$0	\$1,700
Specialists - Technical Support::	\$66,200	\$0	\$60,543	\$5,658
Discipline Specialists - GW (10%)	\$8,995	\$0	\$8,995	\$0
Discipline Specialists - SW (10%)	\$6,830	\$0	\$6,830	\$0
Discipline Specialists - WQ (20%)	\$20,327	\$0	\$20,327	\$0
Discipline Specialists - GIS (15%)	\$12,481	\$0	\$12,481	\$0
Database Officer (10%)	\$4,909	\$0	\$4,909	\$0
Safety Officer (10%)	\$5,658	\$0	\$0	\$5,658
Travel for National Specialist Meetings	\$7,000	\$0	\$7,000	\$0
Center Contingency Fund:	\$30,000	\$0	\$0	\$30,000
Contingency Fund	\$30,000	\$0	\$0	\$30,000
TOTAL:	\$1,164,968	\$0	\$612,156	\$552,812

E. INFORMATION-TECHNOLOGY ISSUES

Accomplishments/Initiatives

The Center has implemented a local Active Directory domain. Nearly all of the Windows computers are running Windows XP (laptops and desktops). Laptops that could not run Windows XP were replaced with new laptops. New desktops were installed in the Sediment Lab. Space limitations required the installation of small form factor desktops with flat panel monitors. The computer room wiring was reconfigured to remove wiring from the floor for safety purposes. New computer server units were also installed to minimize the space used for each server. This allowed the Center to move critical servers into the locked computer room.

The IT staff has spent much time working on the Certification and Accreditation (C&A) process. The Computer Services Section consists of 1.7 FTEs staffed by two full time employees. Thirty percent of one of the full-time employees is funded by NWIS (Sun Technical Advisory Committee). The Sun TAC provides Sun support for the WRD, providing installation instructions, security fixes and email help group support for the field. Sun TAC support for 2004 can be found at the following web site - http://unix.usgs.gov/solaris/sa_notes/2004.html. The Center has an IT working capital fund that will be used to purchase a new Sun server for NWIS. The current Sun Ultra Enterprise 450 provides sufficient resources for running NWIS, but Sun plans to drop maintenance for the Sun 450 early in 2007.

The IT staff plans to improve site documentation in FY 2005. The IT staff also plans to implement web forms and server side includes maintaining a similar look and feel (header and footers) for all internal web pages. IT staff plan to attend and participate in the Information Technology Enterprise Meeting (ITEM) to take place in May of 2005

Concerns

There is concern about the potential impact of the competitive sourcing on the IT services for the Center. There are many programs and systems used in the Center that are not standard systems outside of the USGS. The cost to train new contractors on a regular basis would be an additional cost to the Center.

F. SAFETY

Have you completed all required and recommended actions from your last safety review? If not, why?

The major deficiencies from the 2002 safety review have been completed. There are still several minor deficiencies that are currently being addressed. Ron Kuzniar will be conducting a Center safety inspection in April 2005.



Have you appointed a collateral duty Environmental Program Coordinator for the Center?

The current Environmental Program Coordinator is Matt Noon. Doug Schnoebelen is being considered for the position due to his expertise in water quality and his association with the lab.

Who gives final review and approval to gaging-station JHA's and Traffic Control plans?

Traffic control plans have been approved by the Iowa Department of Transportation. Supervisors approved the generic JHA form, site specific JHA's are completed by the employee responsible for that site and are reviewed by the employee that checks that record.

Have field personnel who enter stilling wells been supplied with mechanical ventilators and training?

All three office's have been supplied with the appropriate ventilators and training for stilling well maintenance.

Is your Center adding to, or removing items from the deferred maintenance list?

The Center is currently removing items from the list.

When was the last time an inspection of abandoned, but still standing gaging stations and cableways done?

At this time abandoned stations and cableways are not being inspected. Abandoned stilling wells have been welded shut and abandoned cableways have had the cable cars removed. The three active cableways in the Center were inspected in 2004. There are currently thirty active stilling wells in Iowa. Three were discontinued in 2004, of which two were removed. The goal is to eventually remove all stilling wells to reduce hazards to employees and the public.

Does your data program maintain a station maintenance list, and is it regularly prioritized?

Station maintenance is done on routine field trips. Major deficiencies at gaging stations are noted and brought to the attention of the supervisors. Deficiencies are corrected based on priority and budget.

How could the current method of Center Safety Reviews by the Region be improved?

Conduct follow-up visits to ensure deficiencies have been corrected.

Is your Center Safety Committee effective? How does it assist management in safety performance?

A new Center Safety Committee is being formed and should be in place by spring 2005. The current plan is to choose committee members from each office, lab, studies section, computer section, and the administrative section. The goal is to get more people involved in safety. The committee will meet annually, conduct conference calls quarterly, and maintain contact with management via emails and telephone calls.

Do you believe that Project Chiefs, field-crew supervisors, or Lead Technicians understand his/her responsibilities for their crews?

Supervisors, lead technicians, project chiefs, and management are all concerned for the safety of their employees. More importantly, each employee is concerned for the safety of his or her fellow employees, which makes for much safer working conditions.

G. TRAINING

The Center has obligated \$46,000 for general staff training requirements in FY2005. These funds are paid from the common services account. Employees and supervisors are encouraged to discuss training and career development during their annual performance appraisals. Supervisors then suggest courses for specific employees during the year and an annual training plan is prepared. Project chiefs discuss project training needs with the Center Management Team during quarterly project reviews. Training that is specific to a particular project need or that is above and beyond the ability of the common services account to fund is the responsibility of the individual project.



The Center considers New Employee Orientation, Diversity in the Workplace, and Sexual Harassment in the Workplace, Computer Security, Hazard Communication, and Blood-Borne Pathogens as mandatory training for all employees and is being provided by videotape, online, or presentations. Field personnel also receive required training in First Aid/CPR and Defensive Driving. Other specialized training such as Boat Operators, Hazardous Waste Site Safety, and Seismic Blasting Safety is provided to those employees involved in the activities.

The Center would benefit by providing in-house group training for the following activities: report training is scheduled for July 2005.

H. OUTREACH

The Center's Communication Plan provides a strong outline for the Center's public affairs and outreach activities. The Center continues to maintain frequent contact with Congressional representatives and works with the media to promote USGS activities within the State.

USGS 125th Anniversary and Century Gage Dedication – Mississippi River at Clinton, IA - To commemorate the 125th Anniversary of the USGS and to recognize the 130-year anniversary of the Mississippi River at Clinton, IA gage, the Center invited Congressional representatives and cooperators to join them at the Lucille A. Carver Mississippi Riverside Environmental Research Station for a birthday party, employee recognition, and century gage dedication. The history of the USGS and the importance of its cooperators' role in providing water resource information to the nation were discussed. All guests were invited to say a few words about the USGS. Congressional representatives from Senators Harkin and Grassley's offices, along with key personnel from the Army Corps of Engineers, the National Weather Service, the Iowa Department of Natural Resources, and faculty and staff from the University of Iowa took this opportunity to share their feelings about the importance of the information provided by the USGS. They also expressed their deep appreciation for the fine working relationships that have been developed over the years between their organizations and the USGS. A Century Gage plaque was unveiled and was later mounted on the door of the Clinton gage house. A 130-year hydrograph was displayed along with historical photographs of USGS employees and equipment. A fourth generation volunteer gage-observer shared stories of her father, grandfather and great-grandfather who all read the gage before her.



Congressional Visits - The Center Director traveled to Washington, DC in April 2004 to visit the offices of the Iowa Congressional representatives. With the help of the Congressional Affairs office, appointments were made with staffers in 6 of the 7 Iowa Congressional offices. A packet containing information about the USGS and the Center's activities was given to each staffer who expressed their gratitude for the visit.

Congressional Newsletters - The Center is currently developing a quarterly newsletter that will be sent to all Congressional offices in the state. The focus of the newsletter will be items of interest to the Congressional members that will help to keep them better informed of earth science issues and the work being done by the USGS.

Annual Iowa Children's Water Festival - The Center is one of the primary sponsors of this annual event which hosts fifth-grade students from across the State for a day of water education presented by professionals involved in water resources activities. This year's festival grew by 25% with the total student registration reaching a record-breaking 2,500. The Center Director, Communications Officer, and Ground-Water Specialist coordinate the program and educational content for this event by working closely throughout the year with other Federal, State and local agencies, many of who are Center cooperators. Additional USGS personnel attend the festival to promote water education at the Center's booth in the Exhibit Hall and its classroom presentation of "Water Jeopardy". The Iowa Children's Water Festival was recognized this year by Iowa Governor Tom Vilsack and Jeff Vonk, Iowa Department of Natural Resources Director with another award for Environmental Workers and Volunteers. The "Above & Beyond" award recognizes groups and individuals who have made outstanding contributions to the well being of Iowa children by "planting the seeds of environmental consciousness that will grow and bloom for generations." The awards ceremony was held at the State Historical Building in Des Moines. Plans are currently underway for the May 12, 2005 festival. Invitations will be sent to all Iowa Congressional representatives and Legislators from the State of Iowa to be a part of a special VIP tour and activities. This event provides high profile visibility for the USGS not only to the 2000+ students but also to the 400-500 volunteers, teachers, parents, presenters, exhibitors, and sponsors, including current or potential Center cooperators that help to make this a first class event.



The Iowa Children's Water Festival was recognized this year by Iowa Governor Tom Vilsack and Jeff Vonk, Iowa Department of Natural Resources Director with another award for Environmental Workers and Volunteers. The "Above & Beyond" award recognizes groups and individuals who have made outstanding contributions to the well being of Iowa children by "planting the seeds of environmental consciousness that will grow and bloom for generations." The awards ceremony was held at the State Historical Building in Des Moines. Plans are currently underway for the May 12, 2005 festival. Invitations will be sent to all Iowa Congressional representatives and Legislators from the State of Iowa to be a part of a special VIP tour and activities. This event provides high profile visibility for the USGS not only to the 2000+ students but also to the 400-500 volunteers, teachers, parents, presenters, exhibitors, and sponsors, including current or potential Center cooperators that help to make this a first class event.

Outreach

The Center continues to promote USGS activities with a professional services exhibit booth by attending select professional conferences; these conferences include the American Water Works Association - Iowa Section, Iowa League of Cities, Iowa County Engineer's, Iowa Rural Water Association, Iowa Watershed's Association, and Iowa Rural Water Association. Center personnel staff the booth providing an opportunity to visit with current and potential cooperators, state leaders, and other water science professionals. The exhibit booth is customized for each of the conferences where USGS reports and Fact Sheets are distributed. August 3, 2004 was the 200th anniversary of the Lewis & Clark Expedition's first Tribal Council at Fort Atkinson, NE. The Center participated in the exhibit booth at the 5-day celebration in cooperation with the Nebraska and Missouri USGS Science Centers. The USGS exhibit included demonstrations of a sextant, a log line and river sedimentation from today compared to 200 years ago. Over 60,000 people attended the festival.

Center personnel remain committed to sharing the world of water science with students when possible. A local alternative high school visits with the Center's Ground Water Specialist twice each year - once in the fall for a ground-water flow model demonstration in the office and again for a field trip to measure a local monitoring well. Other classroom visits included several demonstrations of the ground-water flow model at junior high schools and an Enviroscope demo at an elementary school. Three fifth-grade classes were bussed to a local gaging station so they could see the origin of the streamflow information they have been studying in their math class; the teacher was using the USGS real-time data to teach her class about graphs.

Media

The Center continues to promote events of interest and new research through press releases to the local and state-wide media. Congressional offices also receive copies of all press releases to help keep them advised of the USGS work in Iowa. Over the past year a number of significant news stories have covered ongoing projects in Iowa including the Bathymetric, Time of Travel, and Water Quality studies as well as river monitoring and flooding.

I. INFORMATION REQUIRED BY EXTERNAL REVIEW OF THE COOPERATIVE PROGRAM

None of the Cooperative Program projects completed in FY2005, or planned for FY2006, include a study that crosses a State boundary or that involve USGS/private sector interaction or collaboration.