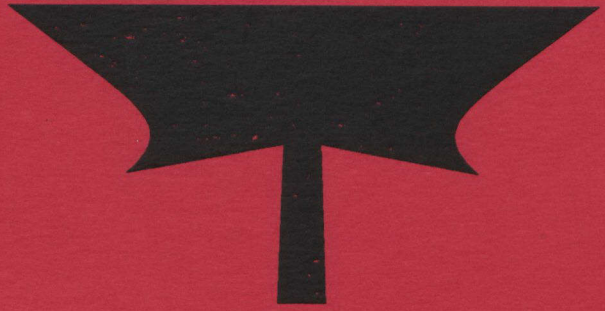


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TRADE DEVELOPMENT MARKET INFORMATION



CHARTING A COURSE FOR CONTRACTS

*

THE U.S. FEDERAL GEOMATICS MARKET



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By: Judy Bradt

September, 1994

EXECUTIVE SUMMARY

This report gives an overview of business opportunities in the U.S. public sector market for geographical data services, tools, products, and information systems. The study focuses on the federal level, with some state and local government data, and covers:

- market size;
- market structure;
- direction of future needs;
- leading vendors;
- leading federal customers;
- how to identify opportunities;
- key contacts for partnerships and industry associations;
- upcoming events of interest; and
- sources of further market intelligence.

Most significant U.S. federal geomatics opportunities for geomatics services are imbedded in larger contracts for services like environmental restoration, construction or engineering. These projects require geographic information or services in order to be effectively carried out, but the geomatics requirements are most likely to be awarded as subcontracts. The market for explicit geomatics services -- for example, cartography, topography, or photogrammetry -- in the U.S. federal government is small. Both kinds of contracts are dominated by a few large firms. Many more contractors often scramble for less than 30 percent of the contract dollars.

The state and local government markets together are as large as the federal market -- over half a billion dollars annually. This report has excellent appendices with contacts knowledgeable about the geomatics requirements in each state.

Partnerships, particularly with American firms, are therefore essential to success. Strong participation in U.S. industry associations and frequent marketing research calls on individual project managers within the federal agencies are highly recommended.

**For further market information or custom reports, please fax your request to
J. Bradt, Embassy of Canada, Washington DC at (202) 682-7619
email J.BRADT@GENIE.GEIS.COM**

SOMMAIRE

Ce rapport explique sommairement les débouchés que les marchés publics américains offrent pour les services, outils, produits et systèmes d'information liés aux données géographiques. L'étude se concentre sur les marchés fédéraux en donnant quelques éléments d'information sur les marchés des gouvernements d'État et des administrations locales; elle couvre:

- la taille du marché;
- la structure du marché;
- la tendance des besoins;
- les principaux vendeurs;
- les principaux clients fédéraux;
- la façon de recenser les débouchés;
- les principales personnes à contacter au niveau des partenariats et des associations industrielles;
- les prochaines activités à signaler;
- les sources de renseignements complémentaires sur les marchés.

Les principaux marchés fédéraux de services de géomatique sont par exemple offerts dans le cadre de grands contrats de services de restauration de l'environnement, de construction ou de génie. Ce sont des projets dont la bonne exécution nécessite des données ou des services géographiques; mais il est fort probable que les besoins en géomatique seront confiés à soustraitance. Le gouvernement fédéral américain a peu de besoins en véritables services de géomatique comme la cartographie, la topographie ou la photogrammétrie. Les deux types de marchés sont dominés par un petit nombre de grandes firmes alors qu'un grand nombre d'entrepreneurs moins importants se livrent concurrence pour décrocher les derniers vingt pour cent ou moins de la valeur des contrats.

Le marché des gouvernements d'État et des administrations locales est tout aussi important; il représente plus d'un demi-milliard de dollars par année. Ce rapport contient d'excellents appendices donnant les noms de personnes connaissant bien les besoins en géomatique de chaque État.

Les partenariats, surtout avec des firmes américaines, sont donc essentiels au succès. Une bonne participation aux activités d'associations industrielles américaines et la visite fréquente de responsables de projets au sein des agences fédérales sont hautement recommandées pour faciliter la prospection de débouchés.

Pour obtenir de plus amples renseignements sur les marchés ou des rapports personnalisés, veuillez télécopier votre demande à :
J. Bradt, Ambassade du Canada, Washington, D.C. au (202) 682-7619
courrier électronique J.BRADT@GENIE.GEIS.COM

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INTRODUCTION

This report is the 1994 edition of an original survey of opportunities for Canadian geomatics firms in the U.S. federal & state governments commissioned by the Canadian Embassy in Washington DC.

The report combines market intelligence available through several major studies of the U.S. and worldwide geomatics markets with some highly specialized knowledge obtained by the Canadian Embassy in Washington. The resulting analysis provides something not seen in other studies: the structure of the federal buyers market, the vendor community that meets its needs, and the implications for Canadian geomatics firms seeking business in the U.S. federal market.

The main focus is on the U.S. federal market -- in part, because data on that market is readily accessible. The data that the Embassy has available in Washington on the federal market make possible a level of detailed analysis that is simply not available for state and local contracting.

A few clarifying notes on terms used in this report:

- "GIS" implies geographical information systems -- products that run on computers, and services that develop and manipulate data on computers;
- "geomatics" implies the full range of professional disciplines that collect, analyze, develop, and provide tools to manipulate geographical data; and
- "traditional" geomatics refers to areas like charting, topography, photogrammetry, and aerial surveying, whether assisted by GIS.

All figures in this report are in U.S. dollars.

The appendices in this report are immensely valuable, and rich with contacts and resources to pursue opportunities at both the federal and state levels.

Study Objective

The scope of the study was to identify opportunities for Canadian geomatics firms in the U.S. federal and state/local government markets.

The study objectives were:

- To provide an overview of opportunities in the U.S. government market for Canadian geomatics services and products;
- To recommend approaches to the market that could be productive;
- To identify new business for Canadian geomatics firms, and sources of upcoming opportunities;

- To provide contacts for market development -- names and phone numbers of people to call, at the federal and state level, responsible for geomatics initiatives and upcoming contracts; and
- To list market research publications and how to get them, and list sources of market intelligence about upcoming procurements.

Methodology

This report is a result of the combined efforts of the Canadian Embassy in Washington and its contractor. Data collected here was collected through:

- interviews with U.S. federal government geomatics users and senior officials in American GIS industry associations;
- analysis of recent reports on U.S. geomatics market at the federal, state and local level; and
- review of publicly available reports and services available from U.S. firms and industry associates.

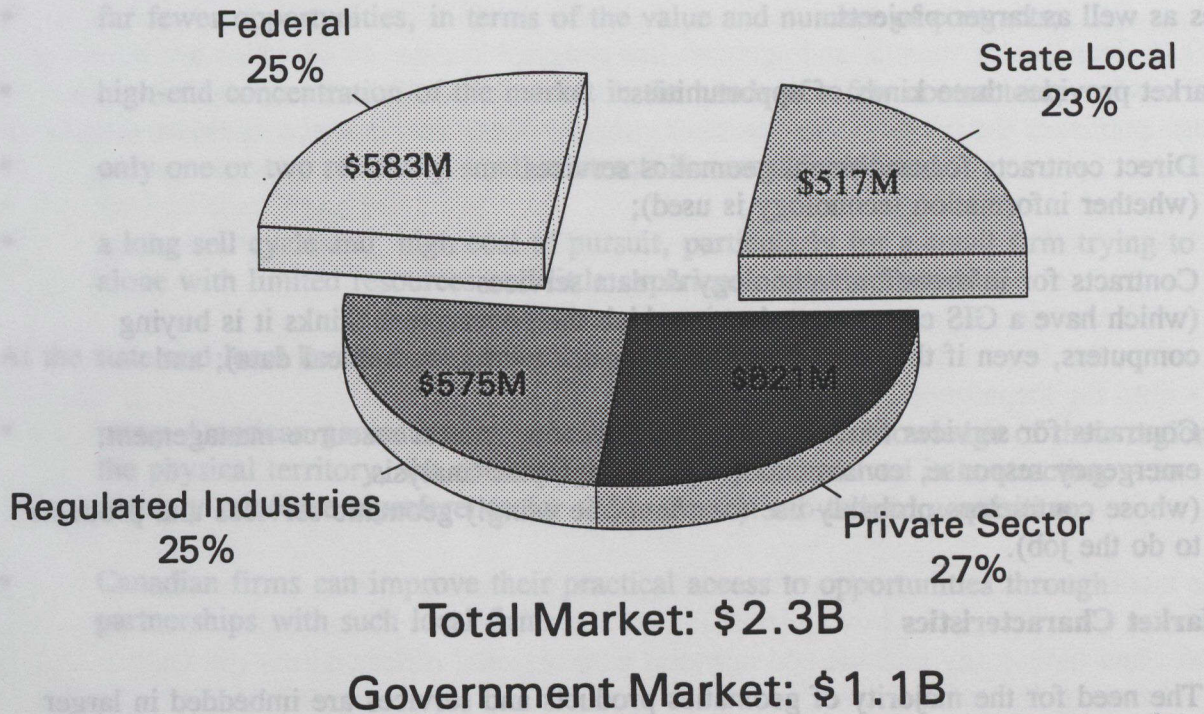
The Embassy examined the past federal procurement data contracts to determine the structure of the federal market, and selected a sample of upcoming projects in information technology to give Canadian firms an idea of the range of large federal informatics contracts that involve geomatics.

U.S. Public Sector Geomatics Market: Overview

The 1992 market for geomatics was estimated to be worth \$2.3 billion. (see Chart 1) The market is divided pretty equally among federal, state and local, regulated industry (such as public utilities) and the private sector. Government -- that is federal, state, and local taken together -- accounts for nearly half of this market -- with federal alone accounting for over \$583 million. The demand by U.S. government (federal, state, and local) for geographical information and tools is immense -- \$1.1 billion -- and is forecast to double by 1997.

CHART 1

U.S. GEOMATICS MARKET



Source: URISA '93

Despite the billion dollar figures discussed, pure market size estimates mean very little, particularly in the geomatics industry, where many firms are very specialized. The more important questions are how much of the available market can **Canadian geomatic firms** win and how much is being spent on what **they** offer?

The U.S. congress requires each buying agency to report both its budget and how it actually spends the money -- one contract at a time. Agencies have to report every contract action over \$25,000, and this information is on public record. The data for every contract includes:

- the name of the contractor;
- the buying agency;
- the amount of the award;
- the purchase office; and
- the class of product or service purchased.

The figures presented in this report are based on an analysis of those reports.

Sometimes the classifications are broad, reflecting the scope of many large projects. This implies that geomatics services may play a part in direct procurement of both specialized services as well as larger projects.

The market provides three kinds of opportunities:

- Direct contracts for traditional geomatics services (whether information technology is used);
- Contracts for information technology & data services (which have a GIS component, but in which the government thinks it is buying computers, even if they are being used to work with geographical data); and
- Contracts for services like environmental cleanup, natural resource management, emergency response, construction, and demographic analysis (whose contractors probably use (or *should* be using!) geomatic services and products to do the job).

Key Market Characteristics

- The need for the majority of geomatics products and services are imbedded in larger contracts for complex applications. Successful geomatics exporters must identify these complex/large opportunities and market to government based on the enhanced effectiveness and cost savings that the use of their services and products will bring to the projects.
- Information systems will continue to be a driving force in the growth of demand for geomatic products and services. Techniques, tools, data and services that can be integrated into information systems projects -- existing and planned -- have the greatest potential.
- Most opportunities are best accessed through partnerships, teaming or subcontracts -- even more so at the state and local level.
- The price of those partnerships may be a requirement to share access to the Canadian or international market. On the other hand, such partnerships may also lead to new business overseas as well as in North American markets.

In the federal market, direct contracting for geomatics services features:

- far fewer opportunities, in terms of the value and number of contracts;
- high-end concentration of the market in the hands of a few contractors;
- only one or two relatively small contracts for most firms; and
- a long sell cycle and high cost of pursuit, particularly for a small firm trying to go it alone with limited resources and little experience outside Canada.

At the state and local level:

- many American geomatics firms build on their intimate knowledge of their region -- the physical territory, the contacts, and the players involved in contracting -- to strongly reinforce a preference for themselves in sub-federal acquisition
- Canadian firms can improve their practical access to opportunities through partnerships with such local firms

GIS AND GEOMATICS USE IN THE U.S. FEDERAL GOVERNMENT

Over 100 bureaus, departments, and agencies use geographic data 44 of which are intensive users. Knowing which agencies are part of which departments will help in identifying the office that publishes the procurement forecasts. **Appendix B** in this report includes a table to indicate how it fits together. The report also identifies 28 particularly high-use agencies:

- within the Department of Agriculture -- U.S. Forest Service;
- the Defense Mapping Agency;
- the Central Intelligence Agency;
- within the Department of Commerce -- Bureau of the Census; and
- within the Department of the Interior
 - Bureau of Land Management
 - U.S. Geological Survey
 - Fish and Wildlife Service.

There is a concentration of spending for some geomatics services within two or three departments, even though the buying itself is very decentralized. These departments are mammoth, and have many bureaus and agencies with regional offices across the United States. These regional offices have -- and use -- considerable authority in contracting to meet their program needs. In U.S. federal procurement, there is nothing like Canada's Master Standing Offer program that permits central negotiation for services contracts. The pattern of contracting shows very few contracts that are national in scope. Winning contractors had to make calls on the individual agencies' offices across the country. In order to call one of the heavy-use agencies, ask the agency's leading GIS contact for a copy of their departmental phone book.

Use of geographic data throughout U.S. government is spreading rapidly. In fiscal 1990, fewer than twenty federal departments and agencies were making broad use of geographical data. By fiscal 1992, that number had more than doubled to over 40 agencies, and over 70 agencies were using geographic data in one form or another.

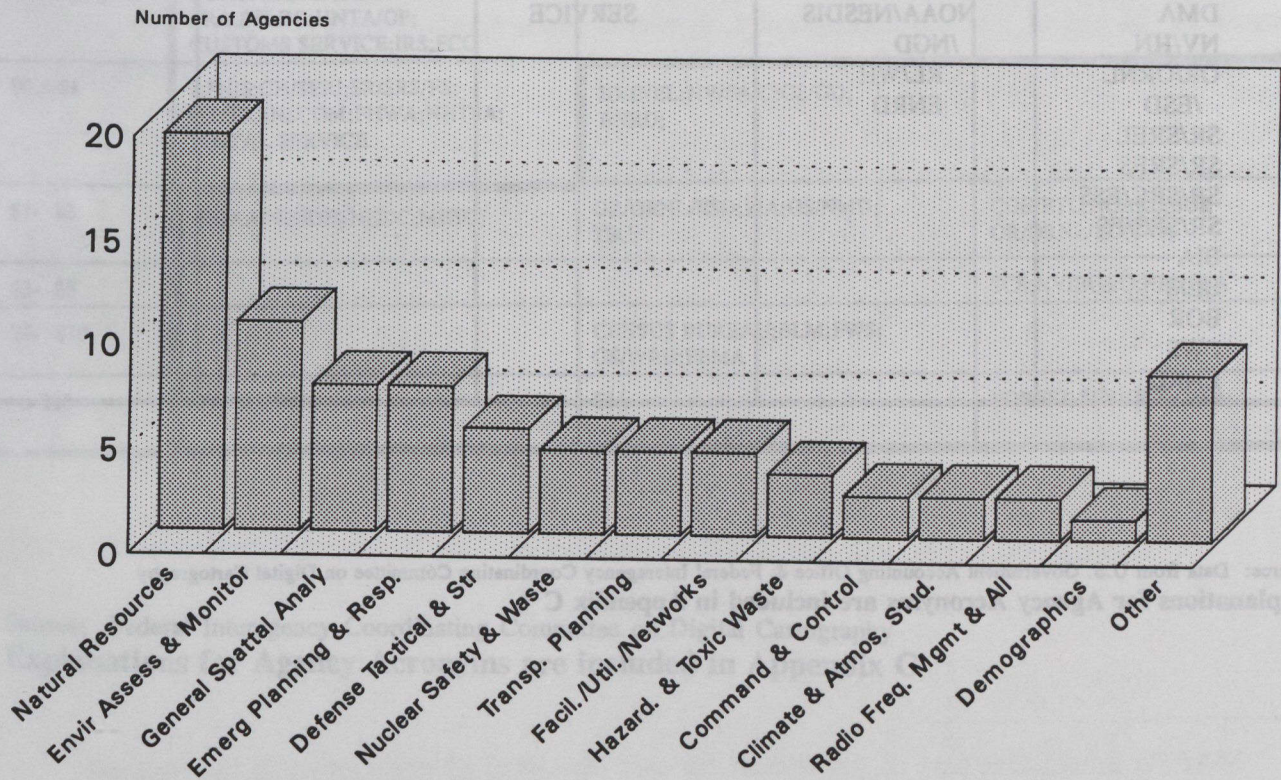
The tremendous growth in the use of geographic data is closely related to the rise in desktop computing. Ever more powerful desktop computing tools have made geographic data more accessible to a broad range of users. The power and sophistication of geographic data in supporting agencies' decision making will continue to increase the demand for both data and the tools and systems to manage that data.

Categories of Geomatics Opportunities in U.S. Federal Government

Chart 2 shows that federal agencies are using geographical information for applications like:

- natural resource management
- environmental assessment and monitoring
- emergency planning & response
- general spatial analysis
- tactical, strategic and defence planning

CHART 2
CATEGORIES OF GIS USE
IN THE U.S. FEDERAL GOVERNMENT



Source: U.S. Government Accounting Office

Chart 3 shows which agencies are involved in specific applications of geographic data and lists contacts within the agencies. This information can help to identify prospects for firms that offer data, hardware, software or services geared to specific applications. Both this table and Appendix G are a good place to start identifying business prospects.

CHART 3

AGENCIES/DEPARTMENTS ACCOUNTING FOR TOP FIVE GIS USERS

NATURAL RESOURCES	ENVIRONMENTAL ASSESSMENT & MONITORING	SPATIAL ANALYSIS	EMERGENCY PLANNING & RESPONSE	DEFENSE TACTICAL STRATEGIC
AID CIA ARS FOREST SERVICE SCS NOAA/NMFS COE/ETL DMA NV/HN OR/ORNL /ESD SR/SREL SR/SRFS SR/SRC/ESS SR/SRS/FS BIA BLM BOR FWS ENRD	EPA NOAA/NESDS /NDGC NV/HDQT NV/REEC OR/ORNL BPA ID/INEL NOAA/NESDIS /NGD RL/WH ENRD	CIA CENSUS BUREAU METC GS/GD NV/SAIC DEA POSTAL SERVICE	APHIS NV/EG&G SR/SRL/ETG FBI STATE NHTSA FEMA	CIA COE NV/F&SN DMA COAST GUARD

Source: Data from U.S. Government Accounting Office & Federal Interagency Coordinating Committee on Digital Cartography
 Explanations for Agency Acronyms are included in Appendix C

Chart 4 identifies those agencies that use many kinds of geographic data and their annual funding. From the chart, it is evident that many agencies spend very little on geographic data for use on only a few applications. Some agencies, like National Weather Service, may be investing in very specialized applications. Others, like Customs Service, have limited use for GIS but as their application of geographic data expands they may become good prospects. Still other agencies, like Forest Service, Defense Mapping, Census Bureau, and Geological Survey, are long-time users of geographic data which is reflected in their budgets and use of a variety of GIS applications.

CHART 4
U.S. FEDERAL GOVERNMENT
GIS MARKET SEGMENTATION MODEL

ANNUAL FUNDING (Mil.\$)	AGENCIES USING 15 or LESS DATA CATEGORIES	AGENCIES USING 16-30 DATA CATEGORIES	AGENCIES USING 31 or MORE DATA CATEGORIES
<\$0.5	NIST;NOAA/NESDIS/NCDC; NOAA/NMFS;NV/NOAA/NWS; NV/REEC;PETC; SR/SREL/ETG;CDC/NCHS; BOM;DEA;FBI;BLS; FRA;STLDC;UNTA/OP; CUSTOMS SERVICE;IRS;FCC	NOAA/NOS;SAN/LLNL; SR/SREL	BPA
\$0.5-\$1	APHIS;CH/SERI;SR/SRS/FS; OR/TRANSCOM;FHWA;NHTSA; POSTAL SERVICE	ID/INEL;NV/SAIC;GS/GD; ENRD;	
\$1- \$3	NOAA/NESDIS/NGDC;METC;	OR/ORNL/ESD;BIA;GS/NMD; TSC;	COE/ETL;NOARL;BOR OR/ORNL/ED;TVA
\$3- \$5			SCS;NV/EG&G;NPS;EPA
\$5- \$10		CENSUS BUREAU;BLM;FWS; GS/WRD;FEMA	
>\$10	FAA/NFDC;	CIA	FOREST SERVICE;DMA;

Source: Federal Interagency Coordinating Committee on Digital Cartography
 Explanations for Agency Acronyms are included in Appendix C

DIRECT FEDERAL CONTRACTS FOR TRADITIONAL GEOMATICS

The federal market for traditional geomatics services is relatively small, and is not expected to grow. The market for cartography, photogrammetry, and topography is estimated by the Management Association for Private Photogrammetric Surveyors (MAPPS)¹ to be about 6-7% of the total government market. This estimate include both direct contracts and contracts for related services. Growth in these disciplines is expected to be modest or flat.

Two other effects are at work. Firstly, the government is trying to coordinate the use of its current data. The Federal Geographic Data Committee (FGDC) involves over 200 people throughout all federal agencies using geographic data. This very technical group confers on issues of data standards, format, and compatibility, and works toward enhancing the availability of existing data for Agencies' use. Vendors often attend events that foster dialogue between industry and this influential government group concerning geographic data. As the efforts of the Federal Geographic Data Committee proceed, many agencies will be able to make greater use of collected data. This is likely to erode the market for new data collection in the short run.

Second, the cost of data to an individual agency may drop in the long run. This is likely because as the use of satellite photography, synthetic radar aperture data and other remote sensing systems grows the number of users willing to share the cost of collecting data also grows. However, there are still likely to be some smaller opportunities for contracts in which detailed or specialized data of a local area is needed on shorter notice than even the wide array of public data can make available quickly and inexpensively.

¹ MAPPS thinks that part of the reason for this low level of contracting is that federal agencies do many of these activities in-house. MAPPS also confirmed our impressions that many contracts for geomatics services are rolled into larger contracts classified as "Architecture/Engineering: Other".

CHART 5

1993 DIRECT U.S. FEDERAL CONTRACTS
FOR GEOMATICS SERVICES

Service	Top Buyers (%)	Typical \$ Contract	Top Firms (%)
Aerial Photography (\$12.8M) (+33% from \$9.6M in FY92)	USGS 32 Fish & Wildlife 23 Agri Stab & Conserv 12 Army Corps 11	63,000	Genox Martel Inc 22 Horizons 9 Bourns 8 45 others 61
Charting (\$3.4M) (-50% from \$6.8M in FY92)	DMA 86 NOAA 13 Army 2	150,000	NM State Univ 78 K-Ton Mapping Corp 9 Geonex 5 National Map Research 4 3 others 4
Photogrammetry (\$4.9M) (+25% from \$3.9M in FY92)	Army Corps 27 USGS 26 NASA 17 Reclamation 13	66,000	John-Phillip's 26 Earth Observation Satellite 17 Atlantic Aerial Surveys 17 23 others 40
Cartography (\$1.4M) (-\$63% from 3.7M in FY92)	USGS 42 DMA 40 Forest Service 26 Indian Affairs 8	45,000	Scribing Services Inc 33 Redcon-Resource Data 18 Mercury Maps Inc 9 14 others 40
Topography (\$434,000) (-16% from \$511K in FY92)	Army Corps 56 Park Svc 19 Forest Svc 16 State 10	10,000	Berhard Eisenbraun & Assoc. 31 Guerriere & Halnon Inc. 16 Wemdy Lopez Associates 16 Ploto S A 11 8 others 26

Source: Eagle Eye Publishers

From Chart 5 it is evident that the vendor community in this market is concentrated.

When one looks at federal contracts² for traditional geomatics, the dominant vendor typically has approximately 30% of the market. Outside of the dominant vendor there are only a few contractors with double-digit market shares. In photogrammetry, cartography, and topography the top four vendors win 60% to 70% of the contract dollars. Less than two dozen of firms chase the rest. For Photogrammetry this represents \$1.96M but a typical contract represents only about \$66,000. For Cartography, Topography and Charting the available contract dollars are few; \$.56M, \$.11M and \$.136M respectively. (Notice that Charting is heavily concentrated in the hands of one vendor). Aerial photography is considerably less concentrated as witnessed by the fact that firms outside the top four are able to bid for \$7.8M in federal contacts.

Emerging Trends FY92 to FY93

The market for the collection of data continues to grow, shown by the jump in Aerial Photography and Photogrammetry. The market for traditional services to publish that data - Charting, Topography, and Cartography -- have declined. This reflects in part, the rapidly expanding base of geomatics computing tools that let users of geographic data perform these services in-house.

The risks of pursuing business in federal contracts can be considerably reduced by developing partnerships. By seeking partners, either among vendors with large market shares or among smaller companies winning contracts in geographic areas of interest, Canadian companies can tap U.S. firms' expertise and avoid U.S. federal tendencies to award contracts to local contractors.

² For details on federal contracts in a particular region, or a summary of all the federal contracts won by a particular company, the Embassy in Washington has that data going back five years.

IMBEDDED FEDERAL GEOMATICS OPPORTUNITIES

The majority of U.S. federal geomatics opportunities are to be found within or supporting larger contracts for more general services. Refer to Chart 6 to see the geomatic related services the U.S. federal government contracted in 1993.

Most importantly, spending in five of the significant general service contract categories grew last year -- anywhere from 2% to as much as 48%. This may signify that geomatics opportunities within these general service contracts may also be larger. The award winners of prime contracts may be good partners for Canadian geomatics services firms to help them carry out the contract effectively. The Canadian Embassy has detailed information on all of these contacts and can create custom reports for you upon request.

Traditional geomatics services firms may want to seek contract opportunities not only as a partner with previous successful contractors, but directly as a prime contractor, or indirectly as a subcontractor to a past contract supplier.

Large contracts for 1) natural resource management/conservation 2) land surveys/cadastral; and 3) environmental impact assessments are concentrated in the hands of relatively few vendors, much the same way as direct contracts. For national reach, partnerships with such large contractors would prove useful.

The sellers' market in 1) architecture/engineering 2) other environmental services and 3) photo/mapping/printing services is much more fragmented than the categories of direct contracts. 81%, 77%, and 63% of those markets, respectively, are split between 200 to 1400 contractors. From this, the Embassy concludes that teaming with smaller contractors in individual geographic areas might be particularly advisable for firms whose services are a good match for contractors offering such services.

Source: Eagle Eye Publishers

CHART 6

1993 U.S. FEDERAL CONTRACTS: IMBEDDED GEOMATICS OPPORTUNITIES

Service	Top Buyers (%)	Typical \$ Contract	Top Firms (%)
Architecture/ Engineering Services (\$1.2B) (-25% from FY92)	Navy 40 Army 25 Energy 10 Army Corps 6 EPA 5	197,000	Gen Dynamics 8 Black & Decker 5 Fluor 3 Abb Flakt 3 1410 others 81
Other Environmental Services (\$509.2M) (+2% from FY92)	EPA 47 Army 35 Navy 8 Energy 4	380,000	ICF 8 SAIC 7 S Cohen & Associates 4 OHM Remediation Services 4 295 others 77
Natural Resource Mgt/ Conservation (\$63.2M) (+5% from FY92)	Air Force 53 Forest Svc 22 NASA 13 Army Corps 5	30,000	EA Engineering 21 Galson 16 SAIC 13 Engrg-Science 12 Systems Research Lab 3 314 others 35
Photo/Mapping/ Printing Services (\$41.9M) (+21% from FY92)	Fish & Wildlife 19 Education 16 Army 11 Navy 9	62,000	Geonex 19 Gannet Sat 7 Textron, Inc. 7 Lloyds Maritime 4 203 others 63
Land Surveys-Cadastral (\$41.9M) (+48% from FY92)	Navy 47 Air Force 12 Forest Service 11 Land Management 11 State 7	38,000	Halliburton 34 James Montgomery 8 Orkand Corp 7 Whitehall Corp 7 214 others 44
Enviro Impact Statements (\$21.1M) (+19% from FY92)	Forest Svc 46 Air Force 23 Army Corps 16 Land Management 6	72,000	Labat-Anderson 23 Enserch Corp 19 Hartford Steam Boiler 16 Dames & Moore 16 EA Engrg 9 Black & Decker 4 23 others 13

Source: Eagle Eye Publishers

For details on federal contracts in a particular region, or a summary of all the federal contracts won by a particular company, the Embassy in Washington has that data going back five years.

Another federal opportunity not explicitly listed here is military base cleanup and environmental restoration³. This U.S. federal effort, which is in its infancy, will generate an enormous volume of contract dollars through procurements by the Departments of Defense, Energy, Interior, and Housing and Urban Development. Between direct contracts and funded programs, this stream of contracting is estimated to be worth **over \$20 billion per year**, over the next twenty years.

To request copies of the agencies' planned project spending refer to:

- the contacts listed in **Appendix G**;
- agency directories, that you can request from people you call on;
- the Federal Yellow Book, a commercially published directory available on annual subscription from Monitor Publishing in New York at (212) 627-4140; and
- selling construction services to the Army Corps of Engineers, available through the Canadian Embassy at (202) 682-7746.

Partnerships

In sum, traditional geomatics services represent a small portion of the geomatic opportunities available in federal procurement. Many more geomatic opportunities are imbedded in larger services categories (as outlined in Chart 6 on page 14). For Canadian firms to be successful in federal procurement they should develop partnerships and concentrate on a few targeted geographic areas to avoid great expense. Partnership -- with either the dominant primes or with firms active in regions near the company -- is an essential strategy, given the structure of the market.

There are many source books available which help to identify potential partners -- including the GIS World Sourcebook and the Daratech Study. Details on how to get these reports are in **Appendix K**. If you need a very targeted report to home in on specific federal contracts or contractors, contact the Canadian Embassy in Washington.

³ The Embassy's specialist in environmental services can help you to identify business related to these opportunities. The Embassy also publishes a newsletter on environmental contract opportunities across the United States. The contact at the Canadian Embassy in Washington is David Weiner, at (202) 682-7745.

By arrangement between the Canadian Embassy in Washington and their contacts at GIS World, we are able to offer you a 25% discount on the **1994 International GIS Sourcebook**. This is published by GIS World in Colorado, and features over 400 vendor profiles from around the world for services and products including:

- GIS software;
- data acquisition;
- remote sensing;
- surveying; and
- consulting.

The regular price, including shipping, handling and GST, is US\$ 152.90

The 25% discount for GIAC members brings that price down to US\$ 116.79

If you want to order one of these guides, call (303) 223-4848 or fax (303) 223-5700. Be sure to reference Betty Wassmer's discount offer for GIAC members because only those requesting the discount will be able to buy the book at this price.

Land Survey-Canada	Navy	47	000.25	23
Printing Services	Forest Serv	46	000.27	23
GIS Software	Air Force	24		19
Remote Sensing	Army Corps	36		16
Surveying	Land Management	5		16
GIS Hardware				9
GIS Data				4
GIS Consulting				13

Source: Esig Eye Publishers

The Embassy's specialist in environmental services can help you to identify business related to these opportunities. The Embassy also publishes a newsletter on environmental contract opportunities across the United States. The contact at the Canadian Embassy in Washington is David Wassmer, at (303) 682-7742.

FEDERAL MARKET FOR GEOGRAPHICAL INFORMATION SYSTEMS

This final section deals with the acquisition of hardware, software, and data services for geomatics. Most of the opportunities in these areas are also imbedded -- included in larger contracts for other information systems. While an aggregate market estimate from the federal contract data is of little use, the overall U.S. government GIS market expects 100% growth -- to \$2.1 B -- by 1997. This prediction is consistent with the findings on GIS activity in the U.S. federal government (Chart 1 on page 3).

When the U.S. government buys computers, the procurement system does not categorize the purchase by application, only by whether the system and software are for mainframes or something smaller. As Appendix L illustrates, most GIS acquisitions are part of broader information technology projects. Very few acquisitions are dedicated exclusively to the management of geographical information. Geographic data is being used in a growing number of wide ranging projects to help achieve agencies' missions.

Unlike the direct acquisition of geomatics services, contracting for large systems is much more centralized. An agency or bureau will manage the acquisition of a geographical information system for all its offices nation-wide.

It is evident that the widespread use of desktop systems has revolutionized the GIS market, and will continue to direct its growth. A combination of factors is driving this growth (though they are too closely related to list a chain of cause and effect), including:

- the shift from mainframe systems, with all their hardware and people costs and application inflexibility, to desktop systems;
- the development of specialized, high-powered GIS desktop systems;
- the plummeting price and rising sophistication and power of general purpose desktop systems -- both hardware and software;
- connectivity, through terminal emulation, LAN, WAN, and telecommunication -- both to mainframes and between intelligent workstations -- has made it much easier for users to share data within an agency;
- the growth in data standards coordination has made it more feasible for users to share data between agencies;
- the growth of desktop tools -- both software and high resolution displays -- to help more non-specialist users to manipulate data; and

In short, desktop computing has made geographical data more accessible. Private sector companies buy and repackage that data for very targeted desktop applications like demographics analysis (often used by an ad agency or social services agency) or real estate sales.

It may be that a key opportunity is not for more specialized tools for geomatics professionals, but for more general tools for a broad range of professionals and data analysts of all disciplines -- in the same way as Lotus and its competitors revolutionized the spreadsheet in personal computing.

In both government and the private sector, desktop packaged software and data are moving geographical analysis from the domain of specialists into the hands of advertising executives, real estate agents, and government officials trying to determine the best market for their services and goods. A wider range of users -- particularly those without training in the geomatics disciplines -- is going to demand easy-to-use tools for data manipulation. They will demand these tools to help them integrate data from one application to another. Firms that can anticipate and meet this user demand may find a profitable niche market within a very competitive systems integration market.

DIRECT INFORMATION SYSTEMS CONTRACTING

Although most GIS opportunities are part of larger contracts, nonetheless, two explicit services contract categories are sizeable, and relate to geomatics: data conversion and data digitization. (Chart 7)

70 to 90 per cent of awarded contract dollars are concentrated in the hands of the top three vendors. Between 1992 and 1993, U.S. federal spending on data conversion nearly doubled. That growth includes both conversion of geographic data and conversion of large applications from proprietary to open systems (another larger initiative by the U.S. federal government). Data conversion shows both a greater value and higher growth than data digitization in FY93. This contract category has become even more concentrated among the vendors -- the top three have grabbed another 10%, leaving only 22% of contracts dollars awarded to 36 other firms.

Federal informatics procurement statistics and congressional budget requests for next year indicate that over \$20 billion will be spent in FY95/6 on large systems integration projects -- though obviously not all involving GIS. However, whether GIS is the key focus of the procurement, or just a small portion, the prime contracts are concentrated among about 100 vendors. These systems are so complex, though, that subcontracting and teaming is extensive.

Those teams⁴ are probably the best bet for a Canadian geomatics firm with:

- a strong product or service that is unique and will give the partner a strategic edge in the bidding;
- a proven market track record -- in Canada or elsewhere; and
- the business strength to contribute to a lengthy contract pursuit on the prime's team.

Canadian geomatics firms that offer software or data services can build a market presence by approaching agency officials or prime contractors one office at a time. Many Canadian firms have used this technique to test the market and determine potential users' response to their offerings.

⁴ Firms seeking introductions to these systems integrators should contact the Embassy for more information about the Embassy's Technology Partnership Program. This program matches Canadian informatics firms with systems integrators who share mutual interest on specific projects, and culminates in a trade mission that brings the potential partners together.

All agencies noted in previous charts are users of geographic data and would be potential customers. Furthermore, the agencies, in both headquarters and regional offices, have widespread authority for independent purchases for anything other than very large systems contracts. Obviously, compatibility with the agency's hardware and software base will be critical -- this report lists the hardware and software platforms used for GIS in each department and agency.

Small firms -- particularly those with only a few engineers and very little marketing staff or local partners -- will undoubtedly find this a difficult market, particularly if they are not well-known or have not already sold in the private sector or at other levels of government. A local presence is essential, whether that is through reps, agents, partners, or a local office.

CHART 7

**1993 U.S. FEDERAL CONTRACTS: INFORMATION SYSTEMS
DIRECT/IMBEDDED DATA SERVICES CONTRACTS**

Service	Top Buyers (%)	Typical \$ Contract	Top Firms (%)
Data Conversion (\$62.7M) (+49% from FY92)	IRMS	115,000	Computer Data
	Offices, Boards & Divisions		I-Net Corp
	Army		Peat Marwick
	DCA		Aspen Systems
			36 others
Data Digitizing Services (\$27.6M) (-10% from FY 92)	Army	96,000	Information Tech
	Land Management		Infotec
	USGS		Synoptic Sys
	Navy		17 others

Source: Eagle Eye Publishers

IMBEDDED GIS OPPORTUNITIES:

The U.S. federal government often builds its requirements for geographic data, tools, or related services into larger systems integration contracts. Hundreds of these contracts, worth over \$20B, are in progress all year right across U.S. government. For most Canadian firms offering informatics-based geomatics products and services, these contracts can offer profitable opportunities for partnerships, teaming, and subcontracting.

These acquisitions are not primarily geomatics contracts. Firms can find opportunities by looking at the application description and considering whether the project might use geographic data, tools to manage that data, an imaging database, or even AM/FM software for relocation of computer equipment in a large installation.

A sample of 18 such opportunities is attached in **Appendix L**. The next few pages explain how to read the reports in **Appendix L** to determine whether these projects offer good potential for you. These contracts are an excerpt from the September 1994 edition of FedMark, a subscription service purchased by the Canadian Embassy in Washington from Federal Sources of McLean, Virginia. The contracts were selected from a key word search that included the following terms:

- geographic
- GIS
- imaging
- remote sensing
- photogrammetry
- data conversion
- data digitization
- environmental
- cleanup
- pollution

All are pre-award; seven are pre-RFP. Estimated contract values of this group range from \$2.5 million to \$750 million. In some cases, no value is estimated because the contracts are in their very early stages. The FedMark service updates information on these and over 500 other informatics contracts each month.

More detail is available on most of these contracts. The Embassy will create a custom research report based on key words for any Canadian firm that requests one.

Contract Program:	Modernization Engineering & Development Support		
RFP/Contract #:	Pre RFP		
Department:	Interior	Agency:	USGS
Description:	MEDS will provide engineering and development support for the National Mapping Div. and its centers to produce, maintain, & distribute maps.		
Services Required:	Software & systems devel., enhancement, management and maintenance related to micro, mini, mainframe computers, distributed or network systs. GIS related activities		
RFP Status/Date:	RFP to be released Jan. 1994		
Estimated Value:	\$9 million		
Contract Office:	Interior, USGS Office of Procurement Reston, VA 22092 Kim Kleeb, (703) 648-7370	Program Office:	Interior, USGS National Mapping Division Thomas Hampton (703) 648-4708
Bulletin Board:	n/a		
Incumbent:	n/a		
Potential Bidders:	Anderson, Comp. Sci. Corp, EDS, Hughes, IBM, MM, PRC,		

Source: Federal Sources, McLean VA.

The report shows the proper name of the project, and identifies the buying department and the agency within that department. If there were an *RFP/Contract number*, you could call the contracting officer to get a copy of the solicitation -- either as a bidder, or as an interested subcontractor. The solicitation, the agency procurement request, and the delegation of procurement authority are just three of the publicly available documents that give potential contractors details on what the system might involve, and can suggest opportunities for geomatics services and products.

The *description* block indicates the purpose of the project -- why the money is being spent, and what the completed system is for. In this case, it is engineering and development support for USGS' National Mapping Center to produce, maintain and distribute maps.

A synopsis of articles about the procurement appearing in trade press and the Commerce Business Daily is also available from the Embassy.

The *services/components* required block summarizes what they think they need to buy in order to accomplish their objectives.

RFP status indicates that this project was released in January 1994.

Estimated value: the agency estimates the contract to be worth \$9M.

The Contract Office: highlights the person to call for a copy of the RFP, and for details about the contracting process. This person will not be able to tell you very much about what the system is actually for. To find that out, contact the Program Office.

Program office: this person is the coordinating point in the agency for all the needs of the people who will use this system. He and his team develop the statement of requirements, evaluate the bids, supervise the contract, and make sure that the system that gets installed is going to do what it is supposed to. This person may not know all the answers to your questions, but he may be able to refer you to someone who does⁵.

This particular contract does not list a *Bulletin Board*, but many agencies keep contractors up-to-date on the status of procurements by using electronic bulletin boards. If one were used on this project, the telephone number would be listed here. There is no access charge.

There is no *incumbent contractor* in this case. If there were one the firm could provide information about the contract, if it is follow-on business from a previous contract.

Finally, there are the *potential bidders*. Eight are listed here. Federal Sources, the vendor from whom the Embassy buys this data, compiles this list based on market intelligence, past contracts, teaming history, and the vendors' capabilities and interests. It is not exhaustive, and there is no guarantee that any or all of these firms will bid, but it is a starting point.

Identifying Potential Information Systems Clients and Partners

Appendices K and F of the report provides some points of contact for government officials. Publications listed in **Appendix I** can provide contacts among the prime contractors. However, there is no substitute for networking in person. Federal information systems, conferences, industry briefings and association meetings are ideal for this.

⁵ You should remember that, after a certain point in the procurement process, this person may not be able to tell you anything. Procurement integrity rules require all bidders to have access to the same information once the acquisition is underway.

The Embassy has a great deal of data on federal information technology contracts. For monthly updates on key projects, bidder contact data, or searches for new opportunities call Judy Bradt at the Embassy of Canada, Washington D.C. Tel: (202) 682-7746, fax: (202) 682-7619.

Determine Business Potential...

Once some possibilities have been identified, business potential can be determined through:

- contract/program officers;
- incumbent contractor;
- possible bidders;
- online bulletin boards;
- industry conferences and publications;
- trade GIS and information systems trade directories;
- the Washington trade press;
- agency procurement requests;
- delegations of procurement authority; and
- calls on agency officials (**Appendix G**).

For more details on these sources, contact the Canadian Government Trade Office in the territory, or the Canadian Embassy.

Key Points In Federal Informatics

To sum up the federal side:

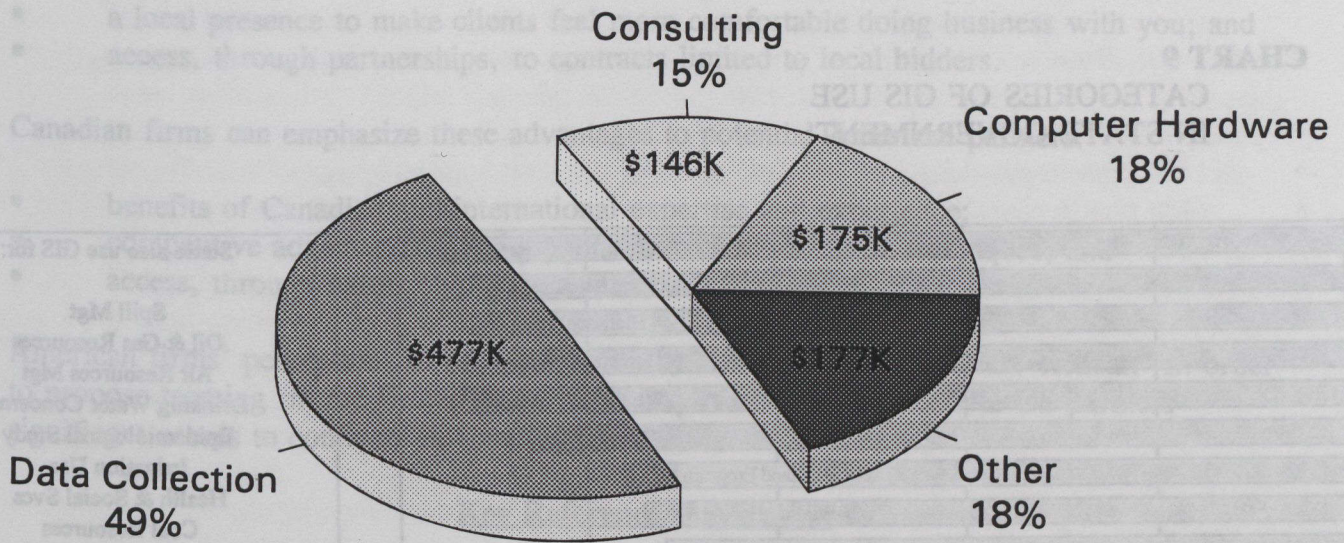
- most federal opportunities are imbedded in larger or more complex contracts;
- look for key applications that use, or could use, geographical information, rather than systems dedicated to geographical information alone;
- test the market by selling GIS products/and services to agencies directly;
- a local presence is essential ; and
- partnerships are critical to lowering the cost of access to these large contracts. Not only do you get the best access to such contracts through teaming, but the long run growth for firms in this market is through partners and bid teams.

GIS EXPENDITURES: STATE AND REGIONAL

This study gives us more in the way of an overview and contacts than of analysis, but also points us towards an excellent reference work for more details. (Chart 8)

The most interesting thing about this chart is the high percentage of consulting and data collection -- 64% -- because these are things that GIAC members are good at.

CHART 8
GIS EXPENDITURES
STATE & REGIONAL



Source: URISA '93

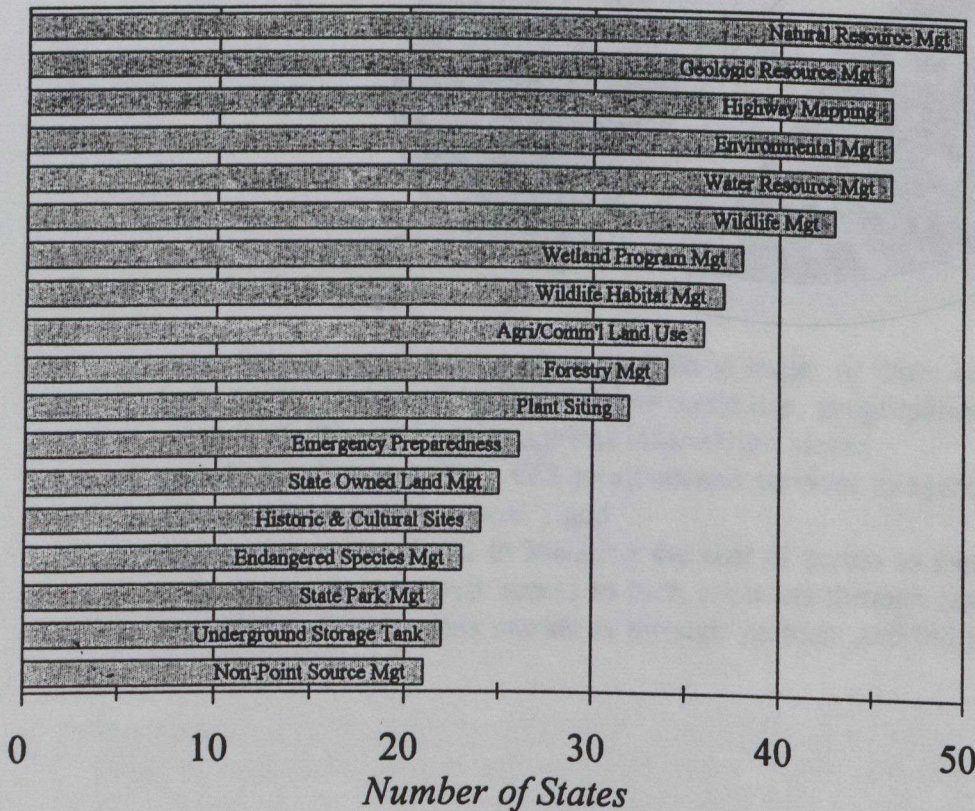
Categories of GIS Use in State Government

Geographical data has a large array of applications at the state and local level -- because of the diverse responsibilities carried out by state and local government. One survey revealed over 500 existing or planned applications spread across the types of programs illustrated in Chart 9.

Not surprisingly, over 40 of the fifty states use geographical information for:

- natural resource management;
- geologic resource management;
- water resource management;
- environmental management;
- highway mapping; and
- wildlife management.

CHART 9
CATEGORIES OF GIS USE
IN STATE GOVERNMENT



- States also use GIS for:
- Spill Mgt
 - Oil & Gas Resources
 - Air Resources Mgt
 - Drinking Water Concerns
 - Epidemiological Study
 - Irrigation Use
 - Health & Social Svcs
 - Coal Resources
 - Superfund Site Mgt
 - Erosion Potential
 - Children & Aging Progs
 - Hazardous Waste Mgt
 - Pesticide Investigation
 - Bridge Maintenance
 - Accident Location
 - Facility Permitting
 - Production Application
 - Firefighting Mgt
 - Labor & Employment

Source: Council of State Governments

State/Regional Government

This study provides listings of contacts in state departments with high potential for geomatics use. Refer to **Appendix H**, and follow up with these officials for information about planned initiatives.

While contract data for the state level is not available, preliminary information suggests that it is even more important to partner with local firms at the state level than at the federal level. Since trade agreements do not provide equal competition for Canadian and American firms on state, provincial or local government contracts, states may demonstrate both an informal preference for local contractors as well as regulated discrimination in favour of in-state bidders. The benefits of partnerships to the Canadian firm could include:

- rapid, on-site information about upcoming contract opportunities;
- detailed knowledge of the local area -- physical territory as well as politics, players, and contacts;
- a local presence to make clients feel more comfortable doing business with you; and
- access, through partnerships, to contracts limited to local bidders.

Canadian firms can emphasize these advantages to potential American partners:

- benefits of Canadian and international expertise and experience;
- competitive advantages of uniquely Canadian technology / techniques; and
- access, through partnership, to Canadian contracts.

American firms' perceptions of cooperation in the Canada-U.S. market are critical. In order to propose teaming in the United States, you may have to offer potential US partners significant access to contracts in Canada or abroad.

Key Reference Publication

In preparing this study, the *State Geographic Information Activities Compendium*⁶ was very useful. It is published by the Council of State Governments, and lists:

- over 1100 state agencies;
- key applications by state;
- contacts in each state; and
- geomatics initiatives, groups, and coordination points.

⁶ To order, call the Council of State Governments in Lexington, Kentucky at (606) 231-1939, or fax your request to (606) 231-1858.

LOCAL GOVERNMENT MARKET HIGHLIGHTS

Finally, a few highlights on the local government market. For more details on the GIS use in specific cities, the best starting point would be the commercial officer in the Canadian consulate or trade office in that territory.

The most common application areas at the local level are:

- Cadastral (after all, accurate property taxes are important);
- Infrastructure planning: zoning, transit, roadways, utilities;
- Environmental monitoring / control; and
- Social services.

A quick look at any issue of GIS World shows a wide range of sophisticated systems for managing geographic data at the city and regional level.

A recent GIS Research Corporation survey of 386 local government officials reported that:

- **46%** have GIS system now;
- **15%** plan to purchase one or more systems within 12 months; and
- **45%** plan to purchase a system within 2-3 years.

ASSOCIATIONS SERVING THE
U.S. GEOMATICS MARKET

NEXT STEPS

1. For the federal market (and, to a more limited extent, the state market), the following appendices identify:

- successful contractors and contact information on where to reach them;
- significant buying agencies, and where to reach them;
- industry directories of potential partners, and how to order those; and
- upcoming informatics contracts, and how to find out more about whether they offer opportunities for you.

This is a broad range of contacts, among government officials and contractors, through whom you can investigate opportunities.

2. To develop opportunities in the United States in general, remember that Americans are joiners, and are willing to pay money to belong to organizations where they can develop contacts. Unlike Canada, which features one key association in the geomatics industry, there are eight separate geomatics industry associations in the U.S. catering to different facets of your profession. The report tells you a bit about each one, its activities, and the advantages that membership might offer. We suggest that you consider joining those that are most suitable for your interests. The report also lists key industry events that you might consider attending, even if you do not join the related association.

Association memberships, with their meetings, conventions, technical journals, directories and other publications can help you to:

- meet potential partners;
- identify projects and technology developments;
- establish and strengthen your market presence; and
- publicize your capabilities.

3. Get in touch with the trade commissioner service both in Canada and the U.S. region where you hope to export. Tell us what other research, trade missions, or other activities can help you. We are here to serve you, and in order to do that effectively, we need your help. For a listing of trade commissioner contacts at home or abroad, call InfoEx, a service of the Department of Foreign Affairs and International Trade, at (613) 944-4000.

APPENDIX A

ASSOCIATIONS SERVING THE U.S. GEOMATICS & GIS MARKET

AM/FM International
14456 East Evans Avenue
Aurora, CO 80014
TEL: (303) 337-0513 FAX: (303) 337-1001
Robert M. Samborski, Executive Director

The purpose of AM/FM International, a non-profit educational association, is to foster information exchange, educational opportunities and scientific research and development that will advance and promote the benefits of geographic and facilities management information systems. Serves utilities, local, state and federal government agencies and other organizations. Hold annual conference and publish bimonthly newsletter.

American Congress on Surveying and Mapping (ACSM)
5410 Grosvenor Lane
Bethesda, MD 20814
TEL: (301) 493-0200 FAX: (301) 493-8245

Consists of three member organizations with 20,000 members: the American Cartographic Association (ACA); the American Association for Geodetic Surveying (AAGS); and the National Society for Professional Surveyors (NSPS). The mission of ACSM, a nonprofit corporation, is to advance the sciences of surveying, mapping, geodesy, GIS/LIS and related fields and to establish a central source of reference for its members. Holds conventions twice annually in cooperation with other associations and publishes a bimonthly news magazine.

Association of American Geographers (AAG)
1710 Sixteenth St, NW
Washington, DC 20009-3198
TEL: (202) 234-1450 FAX: (202) 234-2744
Ronald F. Abler, Executive Director

Founded to promote and encourage geographic research and education and to disseminate findings. With over 6,200 members worldwide, AAG holds an annual meeting and co-sponsors several others.

American Society for Photogrammetry and Remote Sensing (ASPRS)
5410 Grosvenor Lane
Bethesda, MD 20814
TEL: (301) 493-0290 FAX: (301) 493-0208
Stanley A. Morain, Executive Director

A leading high-technology society serving GIS professionals. Divided into 5 divisions: Geographic Information Systems; Remote Sensing Applications; Photogrammetric Applications; Primary Data Acquisition; and Professional Practice. Publishes monthly journal and holds annual meeting.

Federal Geographic Data Committee
U.S. Geological Survey
USGS
590 National Center
Reston, VA 22092
TEL: (703) 648-4533
Michael Damaratz, Executive Secretary

An Interagency committee established to promote coordinated development, use, sharing and dissemination of surveying, mapping, and related spatial data. Committee activities include reporting on GIS use on the Federal Government, developing a system of independently held and maintained digital spatial databases [National Geographic Data System] and establishing standards, procedures, inter-agency agreements, and other mechanisms required for coordination, in consultation with other organizations and Federal agencies. The committee publishes FGD newsletter to report on its activities. Free subscription are available on request.

GIS Standards Laboratory, National Institute of Standards and Technology [NIST]
Quince Orchard Road and Clopper Roads
Gaithersburg, MD 20899
TEL: (301) 975-3265

The GIS Standards Laboratory was created by NIST to help identify, adopt, and develop GIS standards and integrate them with information technology standards.

The Open Grass Foundation Center for Remote Sensing

Boston University

725 Commonwealth Avenue

Boston, MA 02215

TEL: (617) 353-5642

Ms. Pamela Cashman, Operations Manager

A non-profit corporation whose purpose is to provide a forum for the promotion of open geographic information systems in general. GRASS, or the Geographical Resources Analysis Support System is available free of charge to any private developer or organization with access to the internet.

Management Association for Private Photogrammetric Surveyors (MAPPS)

12020 Sunrise Valley Drive, Suite 100

Reston VA 22091

TEL: (703) 391-2739

Mr. John M. Palatiello, Executive Director

Professional association composed of photogrammetric mapping and surveying firms which promotes its membership through conferences, lobbying efforts, networking, and technology marketing.

Mapping Sciences Committee, National Academy of Sciences

NAS

2101 Constitution Ave, NW.

Wash. D. C. 20418

TEL: (202) 334-2100

Tom Usseiman, Executive Secretary

The Mapping Sciences Committee is a group of experts in geographic and land information systems drawn from government, industry and the academic community.

Urban and Regional Information Systems Association (URISA)

900 Second Street, NE, Suite 304

Washington, DC 20002

TEL: (202) 289-1685 FAX: (202) 842-1850

Tom Palmerlee, Executive Director

URISA is a professional/educational organization for individuals concerned with the effective use of information systems, particularly GIS implementation and application, by local, regional, and state/provincial governments. Over 3,500 members from government, private industry, and academia striving to bridge gaps among information producers, users, and systems/service vendors. Hold annual conference and produce numerous GIS related publications.

The Open Grass Foundation Center for Remote Sensing Management and System Research
Boston University
725 Commonwealth Avenue
Boston, MA 02215
TEL: (617) 352-3642
Mrs. Pamela Cashman, Operations Manager

A non-profit organization whose purpose is to provide information for the promotion of open geographic information systems management (GIS) in the geographical business world. Support system is available free of charge to any private developer or organization with access to the internet.

Management Association for Private Photogrammetric Surveyors (MAPPS)
12020 Sunrise Valley Drive, Suite 100
Reston VA 22091
TEL: (703) 391-2739
Mr. John M. Paltallo, Executive Director

APPENDIX B

PRIMARY GIS APPLICATIONS SUPPORTED BY U.S. GOVERNMENT AGENCIES & DEPARTMENTS

**Source: Federal Interagency Coordinating Committee
on Digital Cartography**

The Mapping Science Committee is a group of experts in geographic information systems (GIS) drawn from government, industry and the academic community. The committee is chaired by Tom Paltallo, Executive Director, MAPPS. The committee's primary focus is on the development of standards for digital cartography. The committee is currently working on a number of projects, including the development of a national digital cartography standard and the development of a national digital cartography database.

Tom Paltallo, Executive Director
MAPPS
12020 Sunrise Valley Drive, Suite 100
Reston, VA 22091
TEL: (703) 391-2739

URISA is a professional/educational organization for individuals concerned with the effective use of information systems, particularly GIS implementation and application, by local, regional, and state/provincial governments. Over 1,500 members from government, private industry, and academia striving to bridge gaps among information producers, users, and systems/service vendors. Hold annual conference and produce numerous GIS related publications.

What primary applications does GIS support in your organization ?

Agency	Applications
AID	Monitoring; development planning; famine early warning; resource management.
CIA	Map display, overlay, and visual analysis; terrain-related, demographic, thematic, and network studies; multivariate modeling; information storage and query.
Dept. of Agriculture	
APHIS	Emergency programs; plant and animal disease quarantine areas.
ARS	Hydrologic characterizations of watersheds for planning and management of land and water resources and quality; pest management; vegetation assessment; rangeland management.
Forest Service	Development, implementation, and monitoring of forest plans; evaluation of spotted owl and timber supply in Pacific Northwest; analysis for local resource management decisions; public involvement and communication.
NASS	Support the Department of Agriculture's Water Quality Program Plan.
SCS	Development of geographic data bases of soils, hydrologic units, and other natural resource data layers; make soil interpretative maps from three different soil geographic data bases; analysis of county, regional, and township resources; project planning and analysis for watersheds, river basins, etc.; analysis of national data bases for policy formulation and program analysis.
Dept. of Commerce	
Census Bureau	Activities include collection, control, mapping, geocoding, data modeling, samples and surveys, tabulation, and publication of data. GIS also is used on a limited basis for training persons from developing countries in census taking and census publication activities.
NIST	Promote and perform cooperative research in GIS technology for promulgating GIS and related standards.
NOAA/NESDIS/NCDC	Climatic mapping.
NOAA/NESDIS/NGDC	Quality control and integration of global and regional scientific/ environmental data bases: global modeling.
NOAA/NMFS	Study of spatial and temporal variability and relationships between biological and oceanographic data; display distribution of catch-per-unit-effort, catch composition, biological parameters, and environmental management; data management; critical habitat management in the coastal zone.
NOAA/NOS	Assessment of impact of human-use activities on coastal and estuarine marine resources.
Dept. of Defense	
COE	Master planning; site selection; resource and land use management; environmental analysis and planning; facilities management; tactical operations.

What primary applications does GIS support in your organization ?

Agency	Applications
COE/ETL	Automated terrain analysis research; feature extraction and terrain data base production and maintenance; development and evaluation of digital terrain data requirements; development of tactical decision aids and terrain data displays; imagery exploitation; artificial intelligence research; environmental studies; environmental and civil works applications.
DMA	Generation of different forms of mapping, charting, and geodetic data; terrain analysis.
NOARL	Demonstrate how the Navy can better use mapping, charting, and geodetic spatial data for support tactical operations; 3-D volumetric modeling of atmospheric, ocean column, sea floor, and subbottom characteristics; cartographic modeling of survey sensor signal propagation; terrain and mobility analysis for tactical amphibious operations; route survey data management for mine counter-measures and mine warfare planning applications; acoustic propagation modeling for subsurface, bottom, and subbottom survey analysis.
Dept. of Energy	
BPA	Environmental impact analysis and prediction; corridor planning; transmission line routing; substation siting; management of environmental and natural resource data bases.
CH/SERI	Research into availability of renewable energy resources.
EML	Preparation of tables and maps showing the radiation impact, county by county, of the ¹³¹ I released into the environment by the atmospheric nuclear weapons tests at the Nevada Test Site.
FERC	No current use.
ID/INEL	Hazardous and toxic waste remediation.
METC	Predict production trends, resource estimates, potential well site evaluations, and basin analyses in the area of Unconventional Gas Recovery and Enhanced Oil Recovery evaluation.
NPR/CA	Facilities, pipeline, and geologic mapping.
NV/DRI	No current use.
NV/EG&G	Emergency response; environmental data base.
NV/F&SN	Containment science; weapons testing program.
NV/HDQT	Summary and display of environmental compliance information; data management and analysis.
NV/HN	Geodetic and survey control; surface and subsurface geologic modeling; event site planning; environmental monitoring and assessment.
NV/NOAA/NWS	Mesoscale transport modeling; predicting populations and geographic areas exposed to hazardous chemical or radiological contamination; determining safe access routes for emergency response personnel; assessing the extent and impact of contamination on biological ecosystems and populations; providing initialization and geographic continuity to regional meteorological forecast models.
NV/REEC	Environmental quality information management, assessment, and decisionmaking.

What primary applications does GIS support in your organization ?

Agency	Applications
NV/SAIC	Development and maintenance of a socioeconomic data base to be used to support data gathering and regulatory license application.
OR/ORNL	Environmental assessments; impact statements; regional modeling; transportation analysis; hazardous waste studies; regional siting; demographic studies; global modeling; acid rain analysis; terrain modeling; facility management; simulation displays; automated mapping.
OR/ORNL/ED	Decision support analysis; environmental impact statements.
OR/ORNL/ESD	Landscape pattern analysis; regional assessments for acid rain; hazardous waste management; watershed research; global climate change research.
OR/TRANSCOM	Provides a monitoring and communications center for Department of Energy shipments of spent fuel, high-level waste, transuranic waste, and other sensitive, high-visibility shipping campaigns. Allows authorized States, Indian governments, Department of Energy shippers and receivers, Department of Energy field offices, and other governmental agencies access to current shipping information.
PETC	Studies of geo-emission and coal distribution patterns; comparison of trace elements underground and on the surface.
RL/WH	Environmental assessment; emergency planning; facilities and infrastructure management.
SAN/LBL	Utility and infrastructure management; environmental monitoring and assessments; local site terrain modeling.
SAN/LLNL	Treaty verification; atmospheric modeling and radiological emergencies; climate modeling; ecological modeling; battlefield combat simulation; facilities management.
SR/SREL	Vegetation mapping; analysis of vegetation patterns.
SR/SRFS	Natural resource management.
SR/SRL/ESS	Nepa activities; wetlands assessment; aerial gamma surveys.
SR/SRL/ETG	Emergency response; environmental impact statements; research and development.
SR/SRS/ESH&QA	Sitewide access to environmental data; producing large-scale maps for environmental reports.
SR/SRS/FS	Coordinate and control development of facilities; land use analysis and evaluation; strategic planning for future facilities development.
SWPA	No current use.
WAPA	No current use.
Dept. of HHS	
CDC/NCHS	Statistical modeling of complex spatial relationships from diverse data bases.
CDC/PHPPPO	No current use.
OHDS	No current use.
Dept. of the Interior	
BIA	Natural resources management and planning; economic development; transportation network analysis; agriculture and urban/infrastructure applications.

What primary applications does GIS support in your organization ?

Agency	Applications
BLM	Land use planning; resource analysis; alternative use and conflict analysis for multiple resource evaluations and decisions; environmental impact analysis and statements; monitoring resource trends and impact of resource use on administered lands.
BOM	Collection, management, and analysis of land and mineral resource information relating to the availability of minerals important to the Nation's industrial base.
BOR	Water rights issues; soil and land classification; land ownership; resource management; political boundaries; environmental monitoring; wetlands; construction support and planning; archeology; land use planning and classification; geology; photogrammetry; image processing.
FWS	Wetlands inventory map production; wetlands trend analysis; refuge master planning; habitat suitability analysis and evaluation; species tracking; environmental monitoring and analysis; land-records management.
GS/GD	Spatial data display, analysis, compilation, and publication.
GS/NMD	Inter- and intra-agency cooperative research projects; base and thematic map generation technique development.
GS/WRD	Water resource appraisals; evaluation of water quality data in a spatial context; developing field sampling schemes; developing spatial data for use with surface and ground water flow models; display of coincident spatial data; performing multi-surface analysis; visualization of change over time.
NPS	Management of natural and cultural resources to determine the fidelity to or deviation from desired conditions; assess the impacts of human influence on these resources; select and predict the consequences of management activities.
OSMRE	Support State regulatory implementation of SMCRA and scientific research.
Dept. of Justice	
CRD	Support redistricting pre-clearance requirements in 17 States under the 1965 Voting Rights Act.
DEA	Creating a geographic data base of drug activity and DEA assets.
ENRD	Accurate presentation of environmental sampling data with respect to location and time; presentation of mineral rights by time of vesting and applicable regulation in Indian claims cases; analysis of ownership from first grants by natural resource available; 3-D representation of aquifer contamination by hazardous materials.
FBI	Electronic pin mapping; location of addresses; routing.
INS	Augment Frequency Management program; use existing radio frequency assignment data and create radio system drawings.
Dept. of Labor	
BLS	Local area unemployment statistics; data collection.
Dept. of State	Crisis management; information management, fusion and dissemination.

What primary applications does GIS support in your organization ?

Agency	Applications
Dept. of Transportation	
Coast Guard	Command and control.
FAA/NFDC	Airspace management; aeronautical charting.
FHWA	Analysis of impact of changes in the Federal policy on the Federal-Aid Highway System including communities served by new Federal aid, economic impact of highways, and relationship of land use to transportation demand.
FRA	Representation of the rail network system.
NHTSA	Enhanced 911 emergency telephone number planning and operation; public safety emergency (law enforcement, fire, emergency medical) dispatching; emergency medical services simulation modeling; traffic records (motor vehicle crash report) analysis; traffic engineering.
StLSDC	Emergency (oil spill) response planning.
TSC	Platform to store, retrieve, and process data on transportation infrastructure and its impacts in support of a variety of transportation analysis projects.
UMTA/OP	No current use.
Dept. of the Treasury	
Customs Service	Identify locations of Customs operational units.
IRS	Selection of IRS office sites.
EPA	Air quality monitoring; Superfund site discovery, prioritization, and analysis; RCRA site management; ground water vulnerability; underground injection control; toxics analyses; wetlands identification; surface water status and trends; risk assessment.
FCC	Radio propagation prediction; allocation of radio frequencies.
FEMA	Emergency management, response, and planning; National Flood Insurance Program.
NARA	No current use. Will support third party access to GIS's produced by other agencies.
NCPC	Urban/project area design; comprehensive planning; project and program review; Federal Capital improvements programming.
NRC	Individual plant evaluation for external events, probabilistic risk assessments, and eastern seismicity issue resolution; geologic, hydrologic, meteorologic, and topographic setting and engineering design evaluation of site related issues for operating reactors, new generation plants, plant life extensions, and nuclear waste repositories; presentation and publication map generation; data base for accident management and emergency response.
Postal Service	Modeling of delivery and collection routes.
TVA	Management of agency lands and reservoirs; site screening for industrial sites and generation and transmission facilities; regional natural resource and economic development projects; monitoring regional environmental conditions; facilities management.

**APPENDIX C
AGENCY ACRONYM EXPLANATIONS**

Abbreviation/Acronym	Agency/Bureau Name
AID	Agency for International Development
CIA	Central Intelligence Agency
DEPT. OF AGRICUL.	
APHIS	Animal & Plant Health Inspection Service
ARS	Agriculture Research Service
ASCS	Agriculture Stabilization & Conservation Service
CSRS	Cooperative State Research Service
FmHA	Farmers Home Administration
Forest Service	Forest Service
NASS	National Agricultural Statistics Service
SCS	Soil Conservation Service
DEPT. OF COMMERCE	Department of Commerce
Census Bureau	Bureau of the Census
NIST	National Inst. of Stds and Tech
NOAA/NESDIS/NCDC	National Oceanic and Atmospheric Administration/National Environmental Satellite Data and Information Service/ National Climatic Data Center
NOAA/NESDIS/NGDC	National Oceanic and Administration/ National Environmental Satellite Data and Information Service/National Geophysical Data Center
NOAA/NMFS	National Oceanic and Atmospheric Administration/National Marine Fisheries Service
NOAA/NOS	National Oceanic and Atmospheric Administration/National Ocean Service
DEPT. OF DEFENSE	Department of Defense

COE	Army Corps of Engineers
COE/ETL	Army Corps of Engineers/Engineer Topographic Laboratories
DMA	Defense Mapping Agency
NOARL	Naval Oceanographic and Atmospheric Research Laboratory
DEPT. OF ENERGY	
BPA	Bonneville Power Administration
CH/SERI	Chicago Operations/Solar Energy Research Institute
EML	Environmental Measurements Laboratory
FERC	Federal Energy Regulatory Commission
ID/INEL	Idaho Operations/Idaho National Engineering Laboratory
METC	Morgantown Energy Technology Center
NPR/CA	Naval Petroleum Reserves/California
NV/DRI	Nevada Operations/Desert Research Inst.
NV/EG&G	Nevada Operations/EG&G
NV/F&SN	Nevada Operations/Fenix and Scisson of Nevada
NV/HDQT	Nevada Operations/Headquarters
NV/HN	Nevada Operations/Holmes and Narver Inc.
NV/NOAA/NWS	Nevada Operations/National Oceanic and Atmospheric Administration/National Weather Service
NV/REEC	Nevada Operations/Reynolds Electrical and Engineering Company, Inc.
NV/SAIC	Nevada Operations/SAIC, Inc.
OR/ORNL	Oak Ridge Opers/O R National Lab
OR/ORNL/ED	Oak Ridge Operations/Oak Ridge National Laboratory/Energy Division

OR/ORNL/ESD	Oak Ridge Operations/Oak Ridge National Laboratory/Environmental Sciences Div.
OR/TRANSCOM	Oak Ridge Operations/TRANSCOM Project
PETC	Pittsburgh Energy Technology Center
RL/WH	Richland Operations/Westinghouse Hanford
SAN/LBL	San Francisco Operations/Lawrence Berkeley Laboratory
SAN/LLNL	San Francisco Operations/Lawrence Livermore National Laboratory
SR/SREL	Savannah River Operations/S.River Ecology Laboratory
SR/SRFS	Savannah River Operations/Savannah River Forest Station
SRSRL/ESS	Savannah River Operations/Savannah River Laboratory/ESS
SR/SRL/ETG	Savannah River Operations/Savannah River Laboratory/ETG
SR/SRSESH&QA	Savannah River Operations/Savannah River Site /ESH&QA
SR/SRS/FS	Savannah River Operations/Savannah River Site/Facilities and Services
SWPA	Southwestern Power Administration
WAPA	Western Area Power Administration
DEPT. OF HHS	Department of Health and Human Services
ADAMHA	Alcohol, Drug Abuse, and Mental Health Administration
AHCPR/CGHSIM	Agency for Health Care Policy and Research/Center for General Health Services Intramural Research
CDC/CCDPHP	Centers for Disease Control/Center for Chronic Disease Prevention and Health Promotion
CDC/CPS	Centers for Disease Control/Center for Prevention Services
CDC/EPO	Centers for Disease Control/Epidemiology Program Office

CDC/IHPO	Centers for Disease Control/International Health Program Office
CDC/IRMO	Centers for Disease Control/Information Resource Management Office
CDC/NCHS	Centers for Disease Control/National Center for Health Statistics
CDC/PHPPPO	Centers for Disease Control/Public Health Practice Program Office
FDA	Food and Drug Administration
FSA	Family Support Administration
HCFA	Health Care Financing Administration
HCFA/OIG	Health Care Financing Administration/Office of the Inspector General
HRSA	Health Resources & Services Admin.
IHS	Indian Health Service
OHDS	Office of Human Development Services
OMH	Office of Minority Health
SSA	Social Security Administration
DEPT. OF HUD	Department of Housing & Urban Develop.
FtWRO	Ft. Worth Regional Office
SFRO	San Francisco Regional Office
DEPT. OF THE INTERIOR	Department of the Interior
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
BOM	Bureau of Mines
BOR	Bureau of Reclamation
FWS	Fish and Wildlife Service
GS/GD	Geological Survey/Geologic Division
GS/NMD	Geological Survey/National Mapping Div.
GS/WRD	Geological Survey/Water Resources Div.
NPS	National Park Service

OPA	Office of Program Analysis
OSMRE	Office of Surface Mining, Reclamation, and Enforcement
DEPT. OF JUSTICE	Department of Justice
CRD	Civil Rights Division
DEA	Drug Enforcement Administration
ENRD	Environment and Natural Resources Div.
FBI	Federal Bureau of Investigation
INS	Immigration and Naturalization Service
DEPT. OF LABOR	Department of Labor
BLS	Bureau of Labor Statistics
DEPT. OF STATE	Department of State
DEPT. OF TRANSPORT.	Department of Transportation
Coast Guard	Coast Guard
FAA/NFDC	Federal Aviation Administration/ National Flight Data Center
FHWA	Federal Highway Administration
FRA	Federal Railroad Administration
NHTSA	National Highway Traffic Safety Admin.
StLSDC	St. Lawrence Seaway Development Corp.
TSC	Transportation System Center
UMTA/OP	Urban Mass Transportation Administration/Office of Planning
DEPT. OF TREASURY	Department of the Treasury
Customs Service	Customs Service
IRS	Internal Revenue Service
Secret Service	Secret Service

APPENDIX D

**COMPUTER PLATFORMS/CLASS OF HARDWARE
USED FOR GIS PROCESSING**

**Source: Federal Interagency Coordinating Committee
on Digital Cartography**

Indicate the class of hardware used for GIS processing in your organization.

Agency	Main-frame %	Manufacturer(s)	Mini's %	Manufacturer(s)	Work-stations %	Manufacturer(s)	Micro's %	Manufacturer(s)
AID			45%	DEC	5%	Sun	50%	IBM/compatible
CIA	25%	DEC, IBM			50%	Sun, Apollo, Intergraph	25%	IBM
Dept. of Agriculture							100%	Apple, IBM/compatible
APHIS							90%	IBM/compatible
ARS			68%	DG	10%	Sun	28%	Numerous
Forest Service					4%	Numerous		
NASS					100%	Sun		
SCS			5%	DEC	5%	Sun, DG	90%	IBM/compatible
Dept. of Commerce								
Census Bureau	30%	UNISYS	50%	DEC	5%	Tektronix, Sun	15%	IBM/compatible, Apple
NIST							50%	IBM/compatible, Apple
NOAA/NESDIS/NCDC			50%	DEC			50%	IBM/compatible
NOAA/NESDIS/NGDC			10%	DEC	40%	Concurrent Computer	50%	IBM/compatible
NOAA/NMFS		Burroughs, CDC				DEC		IBM/compatible, Apple
NOAA/NOS							100%	IBM/compatible, Apple
Dept. of Defense								
COE			40%	Concurrent Computer, DEC	28%	Sun, DEC	32%	IBM/compatible
COE/ETL	5%	Connection Machine	10%	DEC	50%	Sun, Lisp, Symbolics, HP, DEC, Intergraph	35%	IBM/compatible, Apple
DMA	15%	UNISYS	70%	DEC, Intergraph	10%	Sun	5%	IBM/compatible, Apple

Indicate the class of hardware used for GIS processing in your organization.

Agency	Main-frame %	Manufacturer(s)	Mini's %	Manufacturer(s)	Work-stations %	Manufacturer(s)	Micro's %	Manufacturer(s)
NOARL			20%	DEC	40%	Sun, Silicon Graphics	40%	IBM/compatible, HP, Apple
Dept. of Energy								
BPA	80%	DEC			20%	DEC		DEC
CH/SERI				DEC				
EML			100%	DEC				
FERC								
ID/INEL			25%	DEC	75%	DEC, Sun		
METC			70%	DEC	50%	DEC (planned)	30%	IBM/compatible
NPR/CA							50%	IBM/compatible (planned)
NV/DRI					100%	Sun		
NV/EG&G			100%	DEC				
NV/F&SN					100%	Intergraph		
NV/HDQT								
NV/HN								
NV/NOAA/NWS			30%	HP	60%	Silicon Graphics	10%	IBM/compatible
NV/REEC			20%	DG	60%	Sun	20%	IBM/compatible
NV/SAIC								
OR/ORNL	20%	IBM	2%	Modcomp, DEC	10%	Sun, DEC	100%	IBM/compatible
OR/ORNL/ED					20%	Sun	68%	IBM/compatible
OR/ORNL/ESD	80%	DEC			20%	DEC	80%	IBM/compatible
OR/TRANSCOM								
PETC		DEC					100%	IBM/compatible
RL/WH					100%	Sun		IBM/compatible
SAN/LBL								
SAN/LLNL			40%	DEC	40%	DEC, Sun, Irls, Computer Vision	20%	Apple, IBM/compatible
SR/SREL							100%	IBM/compatible

Indicate the class of hardware used for GIS processing in your organization.

Agency	Main-frame %	Manufacturer(s)	Mini's %	Manufacturer(s)	Work-stations %	Manufacturer(s)	Micro's %	Manufacturer(s)
SR/SRFS					100%	Not yet determined		
SR/SRL/ESS							100%	IBM/compatible
SR/SRL/ETG			90%	DEC			10%	IBM/compatible
SR/SRS/ESH&QA			75%	DEC			25%	IBM/compatible
SR/SRS/FS					100%	Intergraph		
SWPA								
WAPA								
Dept. of HHS							100%	IBM/compatible
CDC/NCHS								
CDC/PHPO								
OHDS								
Dept. of the Interior							30%	IBM/compatible
BIA			70%	Prime				
BLM			100%	Prime				
BOM					10%	Sun	90%	IBM/compatible
BOR			40%	DEC, HP, Prime	30%	Tektronix, Sun	30%	IBM/compatible
FWS			70%	Prime, DG	10%	Sun, Tektronix	20%	IBM/compatible
GS/GD			20%	DEC, Prime	40%	Sun, Tektronix, DEC	40%	IBM/compatible, Apple
GS/NMD			60%	DEC, Prime	30%	Tektronix, Sun, Silicon Graphics	10%	IBM/compatible
GS/WRD			90%	Prime	10%	Sun, Tektronix		
NPS					95%	Concurrent Computer, Sun	5%	IBM/compatible
OSMRE			60%	Prime	30%	Silicon Graphics	10%	IBM/compatible
Dept. of Justice								
CRD								
DEA							100%	IBM/compatible

Indicate the class of hardware used for GIS processing in your organization.

Agency	Main-frame %	Manufacturer(s)	Mini's %	Manufacturer(s)	Work-stations %	Manufacturer(s)	Micro's %	Manufacturer(s)
FBI							100%	IBM/compatible
ENRD			100%	TI, DEC, Prime			100%	IBM/compatible
INS								
Dept. of Labor								
BLS	10%	IBM					100%	IBM/compatible
Dept. of State								
Dept. of Transportation								
Coast Guard			50%	Sperry	50%	UNISYS		
FAA/NFDC	95%	IBM					5%	IBM
FHWA							100%	IBM/compatible
FRA	75%	IBM					25%	IBM/compatible
NHTSA							100%	IBM/compatible
SILSDC							100%	IBM/compatible
TSC							100%	IBM/compatible
UMTA/OP								
Dept. of the Treasury								
Customs Service	50%	IBM					50%	IBM/compatible
IRS							100%	IBM/compatible
EPA			70%	Prime, DEC	25%	Tektronix, Sun, DEC	5%	IBM/compatible
FCC	20%		30%	DEC	45%	Sun	5%	IBM/compatible
FEMA			80%	DEC			20%	IBM/compatible
NARA								
NCPC								
NRC					100%	Sun, Silicon Graphics		Plan for PC based system
Postal Service			100%	DEC				
TVA			90%	DEC	4%	Sun	6%	IBM/compatible

List the name and percentage of use of operating systems for GIS processing in your organization.

Agency	Operating System	% Use	Operating System	% Use	Operating System	% Use	Operating System	% Use
NV/EG&G	VMS	100%						
NV/F&SN	UNIX	100%						
NV/HDQT								
NV/HN	UNIX	70%	DOS	30%				
NV/NOAA/NWS	UNIX	60%	AOS-VS	20%	DOS	20%		
NV/REEC								
NV/SAIC	DOS	100%						
OR/ORNL	DOS	70%	MVS	20%	UNIX, XENIX	10%		
OR/ORNL/ED	DOS	80%	UNIX	20%				
OR/ORNL/ESD	VMS	100%						
OR/TRANSCOM	XENIX	75%	DOS	25%				
PETC	VMS		DOS					
RL/WH	UNIX	100%						
SAN/LBL								
SAN/LLNL	VMS	45%	UNIX	45%	DOS	5%	MAC-OS	5%
SR/SREL	DOS	100%						
SR/SRFS	UNIX	100%						
SR/SRL/ESS	DOS	100%						
SR/SRL/ETG	VMS	95%	DOS	5%				
SR/SRS/ESH&QA	VMS	75%	DOS	25%				
SR/SRS/FS	UNIX	100%						
SWPA								
WAPA								
Dept. of HHS								
CDC/NCHS	DOS	100%						
CDC/PHPPPO								
OHDS								
Dept. of the Interior								
BIA	PRIMOS	70%	DOS	30%				

List the name and percentage of use of operating systems for GIS processing in your organization.

Agency	Operating System	% Use	Operating System	% Use	Operating System	% Use	Operating System	% Use
Dept. of the Treasury								
Customs Service	MVS/XA	50%	DOS	50%				
IRS	DOS	100%						
EPA	Primos	40%	VMS	35%	UNIX	20%	DOS	5%
FCC	SUNOS	45%	VMS	30%	GCOS	20%	DOS	5%
FEMA	VMS	80%	DOS	20%				
NARA								
NCPC								
NRC	UNIX	100%						
Postal Service	VMS	100%						
TVA	VMS	90%	UNIX	4%	DOS	6%		

Indicate the type of GIS software used in your organization.

Agency	Public Domain		Commercial	
	%	Software—Vendor	%	Software—Vendor
AID	5%		95%	ARC/INFO—ESRI; ERDAS—ERDAS; IDRISI—Clark University
CIA	5%	GRASS—CERL	95%	TIGRIS, MicroStation GIS—Intergraph; ARC/INFO—ESRI; DELORME—DELORME; FULCRUM—ITC
Dept. of Agriculture				
APHIS			100%	ATLAS*Graphics—Strategic Locations Planning; MapInfo—MapInfo Corp.; MapGrafix—ComGrafix
ARS	25%	GRASS—CERL	75%	ARC/INFO—ESRI; SURFER—Golden Software Inc.
Forest Service	50%	MOSS; GRASS—CERL; DWRIS—FS; Spatial—FS	50%	ARC/INFO—ESRI; GEO—Data General; SPANS—TYDAC
NASS			100%	ARC/INFO—ESRI
SCS	95%	GRASS—SCS	5%	PC-ARC/INFO—ESRI
Dept. of Commerce				
Census Bureau	98%	Internally written software	2%	ARC/INFO—ESRI; MapInfo—MapInfo Corp.; Map Master—Ashton-Tate; ATLAS*GIS—Strategic Mapping; TransCAD—Caliper Corp.
NIST			100%	GeoVision—GeoVision; System 9—Prime; SPANS—TYDAC; MapInfo—MapInfo Corp.; ARC/INFO—ESRI
NOAA/NESDIS/NCDC			100%	Odyssey
NOAA/NESDIS/NGDC	45%	GRASS—CERL	55%	IDRISI—Clark University; ARC/INFO—ESRI
NOAA/NMFS		NCAR Graphics—NCAR; DSP—University of Miami		AGIS—Delta Data Systems; PLOT 88—Plotworks
NOAA/NOS	30%	In house (undocumented)	70%	SPANS—TYDAC; ARC/INFO—ESRI; ERDAS—ERDAS
Dept. of Defense				
COE	28%	GRASS—CERL; Terra CAMMS; MOSS	72%	ARC/INFO—ESRI; ERDAS—ERDAS; Intergraph
COE/ETL	50%	ALBE GIS; GRASS—CERL; Custom-designed GIS's	50%	ARC/INFO—ESRI; SPANS—TYDAC; ERDAS—ERDAS; MicroStation GIS—Intergraph
DMA				

Indicate the type of GIS software used in your organization.

Agency	Public Domain		Commercial	
	%	Software—Vendor	%	Software—Vendor
NOARL	75%	GRASS—CERL; MOSS, ALBE—ETL; GCL/RENDER—NOARL	25%	ARC/INFO—ESRI; TIGRIS—Intergraph
Dept. of Energy				
BPA			100%	ARC/INFO—ESRI
CH/SERI			100%	ERDAS—ERDAS
EML	50%	In house	50%	Map Master—Ashton-Tate
FERC				
ID/INEL	10%	GRASS—CERL	90%	ARC/INFO—ESRI
METC			100%	GAS—Petroleum Information; MCS—Scientific Applications
NPR/CA				
NV/DRI			100%	ARC/INFO—ESRI
NV/EG&G			100%	ARC/INFO—ESRI
NV/F&SN			100%	Intergraph GIS—Intergraph (planned)
NV/HDQT				
NV/HN			100%	Purchasing GIS software from Dynamic Graphics and Rockware; ARC/INFO—ESRI (Investigating)
NV/NOAA/NWS				
NV/REEC			100%	ARC/INFO—ESRI
NV/SAIC			100%	PC-ARC/INFO—ESRI
OR/ORNL	60%	Software developed in house	40%	ARC/INFO—ESRI; AutoCAD—Autodesk; MicroStation GIS—Intergraph
OR/ORNL/ED			100%	SPANS—TYDAC
OR/ORNL/ESD			100%	ARC/INFO—ESRI; SPANS—TYDAC; ERDAS—ERDAS
OR/TRANSCOM	100%	TRANSCOM—Analysas Corp.		
PETC		Software developed in house		
RL/WH			100%	ARC/INFO—ESRI
SAN/LBL				
SAN/LLNL	75%	GRASS—CERL; software developed in house	25%	ARC/INFO—ESRI; Interactive Surface Modeling—Dynamic Graphics
SR/SREL			100%	ERDAS—ERDAS; PC-ARC/INFO—ESRI
SR/SRFS			100%	ARC/INFO—ESRI

Indicate the type of GIS software used in your organization.

Agency	Public Domain		Commercial	
	%	Software-Vendor	%	Software-Vendor
SR/SRL/ESS			100%	ERDAS-ERDAS; ARC/INFO-ESRI
SR/SRL/ETG			100%	ARC/INFO-ESRI; ERDAS-ERDAS
SR/SRS/ESH&QA			100%	ARC/INFO-ESRI
SR/SRS/FS			100%	MicroStation GIS and Environment (MGE)-Intergraph
SWPA				
WAPA				
Dept. of HHS				
CDC/NCHS			100%	SPANS-TYDAC
CDC/PHPPPO				
OHDS				
Dept. of the Interior				
BIA	5%	MOSS	95%	ERDAS-ERDAS; ARC/INFO-ESRI
BLM	85%	MOSS; various remote sensing software	15%	
BOM	10%	GARNETT	90%	ARC/INFO-ESRI; SPANS-TYDAC
BOR	10%	MOSS	90%	GES-ESL; ARC/INFO-ESRI
FWS	40%	MOSS	60%	ARC/INFO-ESRI; MAPIT; PC-ARC/INFO-ESRI
GS/GD	40%	GRASS-CERL; GSMAP/GSDRAW-USGS	60%	ARC/INFO-ESRI; ERDAS-ERDAS
GS/NMD	5%	GRASS-CERL	95%	ARC/INFO-ESRI; SPANS-TYDAC
GS/WRD	5%	Surface II-KGS; GRASS-CERL	95%	ARC/INFO-ESRI
NPS	95%	GRASS-CERL; SACIS-NPS; ELAS-NASA	5%	ATLAS*Graphics-Strategic Locations Planning; ARC/INFO-ESRI; AutoCAD-Autodesk
OSMRE	20%	SB Slope; Blast	80%	Statgraphics; HC Gram
Dept. of Justice				
CRD				
DEA			100%	FULCRUM-ITC
ENRD			100%	RASPAK; RDB Data Bases-DEC; ARC/INFO-ESRI
FBI			100%	MapInfo-MapInfo Corp.
INS				

Indicate the type of GIS software used in your organization.

Agency	Public Domain		Commercial	
	%	Software—Vendor	%	Software—Vendor
Dept. of Labor				
BLS			100%	ATLAS*GIS—Strategic Mapping; SAS Graph—SAS Institute
Dept. of State				
Dept. of Transportation				
Coast Guard				
FAA/NFDC			100%	GIM—TRW
FHWA			100%	PC-ARC/INFO—ESRI; TransCAD—Caliper Corp.; SPANS—TYDAC; MUNMAP
FRA			100%	PTNM—ALK Associates; TransCAD—Caliper Corp.
NHTSA			100%	MapInfo—MapInfo Corp.
SiLSDC				
TSC			100%	Trans CAD—Caliper Corp.; MapInfo—MapInfo Corp.
UMTA/OP				
Dept. of the Treasury				
Customs Service			100%	NPANNX—Belcore
IRS			100%	Custom-designed software—NIST
EPA			100%	ARC/INFO—ESRI
FCC				
FEMA	80%	IEMIS—FEMA	20%	AutoCAD—Autodesk; ARC/INFO—ESRI; Terra View—Terralogics
NARA				
NCPC				
NRC			100%	ARC/INFO—ESRI; Dynamic Graphics
Postal Service			100%	Spatial II—DEC
TVA	.5%	ELAS—NASA	99.5%	Varims—Intergraph; ARC/INFO—ESRI; ERDAS—ERDAS

APPENDIX G

AGENCY TELEPHONE CONTACT LIST

Source: Federal Interagency Coordinating Committee on Digital Cartography

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NOAA/NEEDS/NOCC	David H...	810-244-210
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COE	Sam Thompson	0182-477-208
COE/FTL	Elizabeth Porter	7181-527-208
DMA	Yegor M. D.	5912-272-208
NOARL	John Brockmeyer	957-185-810
Dept. of Energy		
BPA	Allen Herkamp	606-524-106
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APPENDIX G
AGENCY TELEPHONE CONTACT LIST

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ARS	Paul Doraiswamy	301-344-2576
Forest Service	Don Eagleston	703-235-2400
NASS	Jim Cotter	202-447-5778
SCS	George Rohaley	202-447-5405
Dept. of Commerce		
Census Bureau	Judith Sheps	301-763-1731
NIST	Henry Tom	301-975-3271
NOAA/NESDIS/NCDC	Richard Knight	704-259-0452
NOAA/NESDIS/NGDC	David Hastings	303-497-6729
NOAA/NMFS	Michael Fraser	301-427-2372
NOAA/NOS	Peter Grose	301-443-8843
Dept. of Defense		
COE	Sam Thompson	202-504-4852
COE/ETL	Elizabeth Porter	202-355-2875
DMA	--	--
NOARL	John Breckenridge	601-688-5224
Dept. of Energy		
BPA	Allen Herkamp	503-230-3406
CH/SERI	Bob O'Doherty	303-231-1251
EML	--	--
FERC	Alex Kovacs	202-208-2099
ID/INEL	D.G. Barber	208-526-9415
METC	Jerry Craig	304-291-4178
NPR/CA	--	--

NV/EG&G	C. Elaine Ezra	702-295-8602
NV/F&SN	Peter Thompson	702-295-6520
NV/HDQT	John Gandi	702-295-1030
NV/HN	Greg Glover	702-295-6697
NV/NOAA/NWS	David Copley	702-295-2348
NV/REEC	David McNelis	702-295-2319
NV/SAIC	Richard Lee	702-794-7134
OR/ORNL	Richard Durfee	615-574-7449
OR/ORNL/ED	F.P. Baxter	615-574-5968
OR/ORNL/ESD	Richard Olson	615-574-7819
OR/TRANSCOM	Lydia Ellis	615-576-9120
PETC	--	--
RL/WH	George Kraemer	509-373-2755
SAN/LBL	Mark Dedlow	415-486-5038
SAN/LLNL	Hoyt Walker	415-422-1840
SR/SREL	--	--
SR/SRFS	--	--
SR/SRL/ESS	--	--
SR/SRL/ETG	Davis Hayes	803-724-3810
SR/SRS/ESH&QA	Donald Gordon	803-725-1817
SR/SRS/FS	D.M. Isiminger	803-725-2195
SWPA	Dan Johnson	918-581-7504
WAPA	--	--
Dept. of HHS		
CDC/NCHS	Charles Croner	301-436-7904
CDC/PHPPPO	Lee Hughey	404-639-1924
OHDS	Larry Guerrero	202-245-6275
Dept. of the Interior		
BIA	William Bonner	303-236-2250
BLM	Duane Sonnenburg	202-653-5394
BOM	Donald Barnes	202-634-1144

BOR	Michael Pucherelli	303-236-4300
FWS	Claude Christensen	703-358-1729
GS/GD	--	--
GS/NMD	Joel Morrison	703-648-4639
GS/WRD	Doug Nebert	703-648-5691
NPS	Phil Wondra	303-969-2590
OSMRE	Keith Kirk	--
Dept. of Justice		
CRD	Chapman Gleason	202-633-3458
DEA	--	--
ENRD	David McIlwain	202-272-6213
FBI	--	--
INS	John Eagle	202-376-3537
Dept. of Labor		
BLS	John Sinks	202-272-3781
Dept. of State		
	Bruce Kiracofe	202-647-1428
Dept. of Transportation		
Coast Guard	David McLeish	202-267-1143
FAA/NFDC	--	--
FHWA	Roger Petzold	202-366-4074
FRA	Carl Fischer	202-366-0365
NHTSA	Charles Glass	202-366-4297
StLSDC	Stephen Hung	315-764-3275
TSC	Bruce Spear	617-494-2192
UMTA/OP	Paul Verchinski	202-366-1626
Dept. of the Treasury		
Customs Service	James Hatter	202-566-8266
IRS	Gerald Jones	202-233-1263
EPA	Thomas Dewald	703-883-5001
NV/DRI	Carol Thompson	702-798-8882

FEMA	Daniel Cotter	202-646-2757
NARA	Kenneth Thibodeau	202-501-5575
NCPC	Francis Deter	202-724-0211
NRC	James Richardson	301-492-0722
Postal Service	James Bailey	202-268-3605
TVA	Alan Voss	615-751-5425

Montgomery, AL 36130
Tel: 205-242-3486

Economic and Community Affairs
Department
P.O. Box 250347
Montgomery, AL 36125-0347
Tel: 205-284-8700
Fax: 205-284-8670

Environmental Management Department
Cong. W.L. Dickinson Drive
Montgomery, AL 36130
Tel: 205-271-7700
Fax: 205-271-7050

Highway Department
1409 Coliseum Boulevard
Montgomery, AL 36160
Tel: 205-242-6356
Fax: 205-262-3041

Emergency Management Agency
320 S. Court Street
Montgomery, AL 36160
Tel: 205-834-1375
Fax: 205-240-3118

Geological Survey of Alabama
P.O. Box 0
Tuscaloosa, AL 35486-9780
Tel: 205-349-2852

Juneau, AK 99811-1500
Tel: 907-465-2600
Fax: 907-586-1391

Fish and Game Department
Capital Office Park
P.O. Box 3-2000
Juneau, AK 99802-2000
Tel: 907-465-4100
Fax: 907-586-9612

Health and Social Services Department
Office Building
P.O. Box H
Juneau, AK 99801-0500
Tel: 907-465-3070
Fax: 907-465-3068

Labor Department
1111 W. Eighth Street
P.O. Box 21149
Juneau, AK 99802-1149
Tel: 907-465-2700
Fax: 907-465-2784

Natural Resources Department
400 Willoughby Avenue
5th Floor
Juneau, AK 99801
Tel: 907-465-2400
Fax: 907-586-2754

APPENDIX H

STATE DEPARTMENTS MOST LIKELY TO BE GIS USERS

ALABAMA

Conservation and Natural Resources
Department

64 N. Union Street, Room 702
Montgomery, AL 36130
Tel: 205-242-3486

Economic and Community Affairs
Department

P.O. Box 250347
Montgomery, AL 36125-0347
Tel: 205-284-8700
Fax: 205-284-8670

Environmental Management Department

Cong. W.L. Dickinson Drive
Montgomery, AL 36130
Tel: 205-271-7700
Fax: 205-271-7950

Highway Department

1409 Coliseum Boulevard
Montgomery, AL 36160
Tel: 205-242-6356
Fax: 205-262-8041

Emergency Management Agency

520 S. Court Street
Montgomery, AL 36160
Tel: 205-834-1375
Fax: 205-240-3118

Geological Survey of Alabama

P.O. Box O
Tuscaloosa, AL 35486-9780
Tel: 205-349-2852

ALASKA

Environmental Conservation Department

3220 Hospital Drive
P. O. Box O
Juneau, AK 99811-1800
Tel: 907-465-2600
Fax: 907-586-1391

Fish and Game Department

Capital Office Park
P.O. Box 3-2000
Juneau, AK 99802-2000
Tel: 907-465-4100
Fax: 907-586-9612

Health and Social Services Department

Alaska Office Building
P.O. Box H
Juneau, AK 99811-0601
Tel: 907-465-3030
Fax: 907-465-3068

Labor Department

1111 W. Eighth Street
P.O. Box 21149
Juneau, AK 99802-1149
Tel: 907-465-2700
Fax: 907-465-2784

Natural Resources Department

400 Willoughby Avenue
5th Floor
Juneau, AK 99801
Tel: 907-465-2400
Fax: 907-586-2754

ALASKA cont'd

Transportation and Public Facilities
Department
3132 Channel Drive
P.O. Box Z
Juneau, AK 99811
Tel: 907-465-3900
Fax: 907-586-8365

ARIZONA

Administration Department
State Capitol, West Wing
1700 W. Washington, 8th Floor
Phoenix, AZ 85007
Tel: 602-542-1500
Fax: 602-542-2199

Agriculture Department
1688 W. Adams
Phoenix, AZ 85007
Tel: 602-542-4373
Fax: 602-542-5420

Environmental Quality Department
2005 N. Central Avenue
Phoenix, AZ 85004
Tel: 602-257-2300
Fax: 602-257-6874

Game and Fish Department
2221 W. Greenway Road
Phoenix, AZ 85023-4399
Tel: 602-942-3000
Fax: 602-255-3475

Land Department
1616 W. Adams, Room 330
Phoenix, AZ 85007
Tel: 602-542-4621
Fax: 602-542-2590

Transportation Department
206 S. 17th Avenue, Room 100A
Phoenix, AZ 85007
Tel: 602-255-7011
Fax: 602-255-6941

Water Resources Department
15 S. 15th Avenue Phoenix, AZ 85007
Tel: 602-542-1553
Fax: 602-256-0506

Environment Commission
1645 W. Jefferson, Room 416
Phoenix, AZ 85007
Tel: 602-542-2102
Fax: 602-542-2104

Geological Survey
845 N. Park Avenue, Suite 100
Tucson, AZ 85719
Tel: 602-631-2050
Fax: 602-631-2065

ARKANSAS

Revenue Division
Ledbetter Bldg.
Seventh & Wolfe
P. O. Box 1272
Little Rock, AR 72203
Tel: 501-682-7250
Fax: 501-682-7599

Highway and Transportation Department
P.O. Box 2261
Little Rock, AR 72209
Tel: 501-569-2000

Human Services Department
Donaghey Building, Suite 329

P.O. Box 1437
Little Rock, AR 72203-1437
Tel: 501-682-1001
Fax: 501-682-6571

Pollution Control and Ecology Department
8001 National Drive
P.O. Box 8913
Little Rock, AR 72219
Tel: 501-562-7444
Fax: 501-562-4632

ARKANSAS cont'd

Forestry Commission
P.O. Box 4523
Asher Station
Little Rock, AR 72214
Tel: 501-664-2531
Fax: 501-324-9096

Game and Fish Commission
Two Natural Resource Drive
Little Rock, AR 72205
Tel: 501-223-6305

Geology Commission
3815 W. Roosevelt Road
Little Rock, AR 72204
Tel: 501-324-9165

Soil and Water Conservation Commission
101 E. Capitol, Suite 350
Little Rock, AR 72201
Tel: 501-682-1611
Fax: 501-682-3991

CALIFORNIA

Business, Transportation and Housing
Agency
1120 N Street, Room 2102
Sacramento, CA 95814
Tel: 916-654-2474
Fax: 916-324-0796

Real Estate Department
2201 Broadway
Sacramento, CA 95818
Tel: 916-739-3684
Fax: 916-739-3595

Environmental Protection Agency
555 Capitol Mall
Suite 235
Sacramento, CA 95814
Tel: 916-445-3846
Fax: 916-445-6401

Transportation Department
1120 N St.
Sacramento, CA 95814
Tel: 916-445-4616
Fax: 916-324-9673

Conservation Department
1416 Ninth St., Room 1320
Sacramento, CA 95814
Tel: 916-322-7683
Fax: 916-324-0948

Fish and Game Department
1416 Ninth St., 12th Floor
Sacramento, CA 95814
Tel: 916-445-3531
Fax: 916-324-8553

Forestry and Fire Protection Department
1416 Ninth St.
P.O. Box 944246
Sacramento, CA 94244-2460
Tel: 916-445-9920
Fax: 916-445-2655

Parks and Recreation Department
1416 Ninth St.
P.O. Box 942896
Sacramento, CA 95814
Tel: 916-324-9067
Fax: 916-322-6377

Water Resources Department
1416 Ninth St.
P.O. Box 942836
Sacramento, CA 94236-0001
Tel: 916-445-9248
Fax: 916-445-0109

Food and Agriculture Department
1220 N Street
P.O. Box 942871
Sacramento, CA 94271-0001
Tel: 916-445-9280
Fax: 916-323-3169

CALIFORNIA cont'd

Emergency Services Office
2800 Meadowview Road
Sacramento, CA 95832
Tel: 916-427-4990

Lands Commission, California State
1807 13th Street
Sacramento, CA 95814
Tel: 916-322-4105
Fax: 916-322-3568

Transportation Commission
1120 N Street, Room 2221
Sacramento, CA 95814
Tel: 916-445-5856
Fax: 916-445-5856

COLORADO

Agriculture Department
700 Kipling Street, Suite 4000
Lakewood, CO 80215-5894
Tel: 303-239-4100

Highways Department
4201 E. Arkansas Avenue
Room 274
Denver, CO 80222
Tel: 303-757-9011

Local Affairs Department
1313 Sherman Street, Room 518
Denver, CO 89203
Tel: 303-866-2771
Fax: 303-866-2251

Natural Resources Department
1313 Sherman Street, Room 718
Denver, CO 80203
Tel: 303-866-3311
Fax: 303-866-2115

Water Resources and Power Development
Authority
1580 Logan Street, Suite 620
Denver, CO 80203
Tel: 303-830-1550
Fax: 303-832-8205

CONNECTICUT

Environmental Protection Department
165 Capitol Avenue
Hartford, CT 06106
Tel: 203-566-5599
Fax: 203-566-7932

Transportation Department
24 Wolcott Hill Road
Wetherfield, CT 06109
Tel: 203-566-5280
Fax: 203-549-6660

DELAWARE

Agriculture Department
2320 S. dupont Highway
Dover, DE 19901
Tel: 302-739-4811
Fax: 302-697-6287

Natural Resources and Environmental
Control Department
89 Kings Highway
P.O. Box 1401
Dover, DE 19903
Tel: 302-739-4506
Fax: 302-739-6242

Transportation Department
Administration Ctr., Route 113
P.O. Box 778
Dover, DE 19903
Tel: 302-739-4303
Fax: 302-736-4371

DELAWARE cont'd

River and Bay Authority
P.O. Box 71
New Castle, DE 19720
Tel: 302-577-6301

FLORIDA

Agriculture and Consumer Services
Department
The Capitol
Tallahassee, FL 32399-0810
Tel: 904-488-6971
Fax: 904-488-7585

Environmental Regulation Department
2600 Blair Stone Road
Tallahassee, FL 32399-2400
Tel: 904-488-9334
Fax: 904-487-4938

General Services Department
Koger Exec. Ctr., Knight Bldg.
2737 Centerview Dr., Suite 110
Tallahassee, FL 32399-0950
Tel: 904-488-2786
Fax: 904-922-5934

Natural Resources Department
3900 Commonwealth Boulevard
Tallahassee, FL 32399-3000
Tel: 904-488-8587
Fax: 904-487-1469

Transportation Department
605 Suwannee Street
Tallahassee, FL 32399-0450
Tel: 904-488-8541
Fax: 904-487-3403

Game and Fresh Water Fish Commission
620 S. Meridian Street
Tallahassee, FL 32399-1600
Tel: 904-488-2975
Fax: 904-488-6988

GEORGIA

Agriculture Department
Agriculture Building
Capitol Square
Atlanta, GA 30334
Tel: 404-656-3645
Fax: 404-656-9380

Community Affairs Department
1200 Equitable Building
100 Peachtree Street, N.E.
Atlanta, GA 30303
Tel: 404-656-3836
Fax: 404-656-9792

Natural Resources Department
205 Butler Street, S.E.
Suite 1252
Atlanta, GA 30334
Tel: 404-656-0772
Fax: 404-656-2285

Transportation Department
Two Capitol Square
Atlanta, GA 30334-1002
Tel: 404-656-5267
Fax: 404-656-3507

HAWAII

Agriculture Department
P.O. Box 22159
Honolulu, HI 96822
Tel: 808-548-7100
Fax: 808-548-6100

Defense Department
3949 Diamond Head Road
Honolulu, HI 96816-4495
Tel: 808-734-2195

Hawaiian Home Lands Department
P.O. Box 1879
Honolulu, HI 96805
Tel: 808-548-6450
Fax: 808-548-4154

HAWAII cont'd

Health Department
1250 Punchbowl Street
Honolulu, HI 96813
Tel: 808-548-7026
Fax: 808-548-3263

Environmental Management Division
Five Waterfront Plaza
500 Ala Moana Blvd., Suite 250
Honolulu, HI 96813
Tel: 808-543-8304

Land and Natural Resources Department
Kalanimoku Building
1151 Punchbowl Street
Honolulu, HI 96813
Tel: 808-587-0401
Fax: 808-587-0360

IDAHO

Agriculture Department
P.O. Box 790
Boise, ID 83701
Tel: 208-3340-3240
Fax: 208-3340-2170

Fish and Game Department
600 S. Walnut
P.O. Box 25
Boise, ID 83707
Tel: 208-334-3700
Fax: 208-334-2114

Health and Welfare Department
Towers Building
450 W. State Street
Boise, ID 83720-9990
Tel: 208-334-5500
Fax: 208-334-5694

Lands Department
1215 W. State
Boise, ID 83720
Tel: 208-334-0200
Fax: 208-334-2339

Parks and Recreation Department
7800 Fairview Avenue
Boise, ID 83704-8419
Tel: 208-327-7444
Fax: 208-327-7406

Transportation Department
3311 W. State Street
P.O. Box 7129
Boise, ID 83707-1129
Tel: 208-334-8000
Fax: 208-334-3858

Water Resources Department
Statehouse
Boise, ID 83720
Tel: 208-327-7900
Fax: 208-327-7866

ILLINOIS

Agriculture Department
P.O. Box 19281
Springfield, IL 62794-9281
Tel: 217-782-2172
Fax: 217-785-4505

Conservation Department
Lincoln Tower Plaza
524 S. Second Street
Springfield, IL 62701-1787
Tel: 217-782-6302
Fax: 217-782-9599

Land Management and Enforcement Office
Lincoln Tower Plaza
524 S. Second Street
Springfield, IL 62701-1787
Tel: 217-785-8285
Fax: 217-524-5612

Energy and Natural Resources Department
324 W. Adams Street, Room 300
Springfield, IL 62704
Tel: 217-785-2800
Fax: 217-785-2618

ILLINOIS cont'd

Mines and Minerals Department
300 W. Jefferson St., Ste. 300
P.O. Box 10137
Springfield, IL 62791-0137
Tel: 217-782-6791
Fax: 217-524-4819

Transportation Department
2300 S. Dirksen Parkway
Springfield, IL 62764
Tel: 217-782-7820

Environmental Protection Agency
P.O. Box 19276
Springfield, IL 62794
Tel: 217-524-4959

Pollution Control Board
100 W. Randolph Street
Suite 11-500
Chicago, IL 60601-3286
Tel: 312-814-3620
Fax: 312-814-3669

INDIANA

Administration Department
402 W. Washington, Room W479
Indianapolis, IN 46204
Tel: 317-232-3114

Environmental Management Department
105 S. Meridian Street
P.O. Box 6015
Indianapolis, IN 46206-6015
Tel: 317-232-8162
Fax: 317-232-5539

Natural Resources Department
402 W. Washington Street
Indianapolis, IN 46204
Tel: 317-232-4020
Fax: 317-232-8036

Transportation Department
1101 State Office Building
Indianapolis, IN 46204
Tel: 317-232-5533
Fax: 317-232-0238

Health Board
1330 W. Michigan Street
Box 1964
Indianapolis, IN 46206-1964
Tel: 317-633-0100
Fax: 317-633-0779

IOWA

Agriculture and Land Stewardship
Department
Wallace Building
Des Moines, IA 50319
Tel: 515-281-5321
Fax: 515-281-6236

Education Department
Grimes Building
Des Moines, IA 50319-0146
Tel: 515-281-5294

Natural Resources Department
Wallace Building
Des Moines, IA 50319-0034
Tel: 515-281-5385
Fax: 515-281-8895

Transportation Department
800 Lincoln Way
Ames, IA 50010
Tel: 515-239-1101
Fax: 515-239-1639

KANSAS

Health and Environment Department
Forbes Field, Building 740
Topeka, KS 66620
Tel: 913-296-1500
Fax: 913-296-6247

KANSAS cont'd

Wildlife and Parks Department
502 Landon State Office Bldg.
900 S.W. Jackson Street
Topeka, KS 6612-1220
Tel: 913-296-2281
Fax: 913-296-6953

KENTUCKY

Natural Resources and Environmental
Protection Cabinet
Capital Plaza Tower, 5th Floor
Frankfort, KY 40601
Tel: 502-564-3350
Fax: 502-564-6131

Mines and Minerals Department
P.O. Box 14080
Lexington, KY 40512-4080
Tel: 606-254-0367

Transportation Cabinet
State Office Building
501 High Street
Frankfort, KY 40622
Tel: 502-564-4890

Geological Survey
Mining & Mineral Res. Bldg.
Room 228
Lexington, KY 40506-0107
Tel: 606-257-5500

LOUISIANA

Agriculture and Forestry Department
P.O. Box 631
Baton Rouge, LA 70821-0631
Tel: 504-922-1234
Fax: 504-922-1253

Economic Development Department
P.O. Box 94185
Baton Rouge, LA 70804-9185
Tel: 504-342-5359
Fax: 504-342-5389

Environmental Quality Department
P.O. Box 44066
Baton Rouge, LA 70804
Tel: 504-765-0741

Transportation and Development
Department
P.O. Box 94245
Baton Rouge, LA 70804-9245
Tel: 504-379-1100
Fax: 504-379-1856

MAINE

Conservation Department
State House, Station 22
Augusta, ME 04333
Tel: 207-289-2211
Fax: 207-289-2400

Land Use Regulation Commission
Tel: 207-289-2631

Maine Forest Service
Tel: 207-289-2791

Maine Geological Survey
Tel: 207-289-2801

Environmental Protection Department
State House, Station 17
Augusta, ME 04333
Tel: 207-289-2812
Fax: 207-289-7826

Transportation Department
State House, Station 16
August, ME 04333
Tel: 207-289-2551
Fax: 207-289-2896

MARYLAND

Assessments and Taxation Department

301 W. Preston Street
Baltimore, MD 21201
Tel: 301-225-1184
Fax: 301-333-5873

Natural Resources Department

Tawes State Office Building
Annapolis, MD 21401
Tel: 301-974-3041
Fax: 301-974-5206

Water Resources Administration

Tel: 301-974-3849
Fax: 301-974-2618

Maryland Environmental Service

2020 Industrial Drive
Annapolis, MD 21401
Tel: 301-974-7281
Fax: 301-974-7267

Transportation Department

BWI Airport
P.O. Box 8755
MD 21240
Tel: 301-859-7311
Fax: 301-859-7318

MASSACHUSETTS

Management Information Systems Office

One Ashburton Pl., Room 801
Boston, MA 02108
Tel: 617-973-0975

Environmental Affairs Executive Office

100 Cambridge Street
Room 2000
Boston, MA 02202
Tel: 617-727-9800
Fax: 617-727-2754

Transportation and Construction Executive Office

Ten Park Plaza, Room 3510
Boston, MA 02116-3969
Tel: 617-973-7000
Fax: 617-523-6454

MICHIGAN

Agriculture Department

P.O. Box 30017
Lansing, MI 48909
Tel: 517-373-1104
Fax: 517-373-9146

Natural Resources Department

P.O. Box 30028
Lansing, MI 48909
Tel: 517-373-1220
Fax: 517-373-1547

Environmental Protection

Tel: 517-373-7917

Resources

Tel: 517-373-0046

Transportation Department

P.O. Box 30050
Lansing, MI 48909
Tel: 517-373-2090
Fax: 517-373-0167

MINNESOTA

Natural Resources Department

500 Lafayette Road
St. Paul, MN 55155-4001
Tel: 612-296-6157
Fax: 612-296-3500

Transportation Department

John Ireland Blvd.
St. Paul, MN 55155
Tel: 612-296-3000
Fax: 612-297-3160

MINNESOTA cont'd

Public Utilities Commission
780 American Center Building
150 E. Kellogg Blvd.
St. Paul, MN 55101
Tel: 612-296-7124
Fax: 612-297-1200

Geological Survey University of Minnesota
2642 University Avenue
St. Paul, MN 55114-1057
Tel: 612-627-4780
Fax: 612-627-4778

MISSISSIPPI

Agriculture and Commerce Department
P.O. Box 1609
Jackson, MS 39215-1609
Tel: 601-354-7050

Environmental Quality Department
P.O. Box 20305
Jackson, MS 39289-1305
Tel: 601-961-5000
Fax: 601-354-6965

Information Resources Bureau
P.O. Box 1700
Jackson, MS 39215-1700
Tel: 601-987-3884

Highway Department
P.O. Box 1850
Jackson, MS 39215-1850
Tel: 601-359-1209
Fax: 601-359-2233

Wildlife, Fisheries and Parks Department
P.O. Box 451
Jackson, MS 39205
Tel: 601-362-9212
Fax: 601-364-2125

Forestry Commission
301 N. Lamar Street, Suite 300
Jackson, MS 39201
Tel: 601-359-2800
Fax: 601-359-1349

MISSOURI

Agriculture Department
P.O. Box 630
Jefferson City, MO 65102
Tel: 314-751-4211
Fax: 314-751-1784

Conservation Department
2901 W. Truman Blvd.
P.O. Box 180
Jefferson City, MO 65102-0180
Tel: 314-751-4115
Fax: 314-751-4467

Highway and Transportation Department
Capitol and Jefferson Streets
Jefferson City, MO 65102
Tel: 314-751-2551
Fax: 314-751-6555

Natural Resources Department
P.O. Box 176
Jefferson City, MO 65102
Tel: 314-751-3443
Fax: 314-751-9277

MONTANA

Agriculture Department
Capitol Station
Agriculture & Livestock Bldg.
Helena, MT 59620-0201
Tel: 406-444-3144
Fax: 406-444-5409

Fish, Wildlife and Parks Department
1420 E. Sixth Avenue
Helena, MT 59620
Tel: 406-444-2535
Fax: 406-444-4952

MONTANA cont'd

Health and Environmental Sciences Department

Cogswell Building
Helena, MT 59620
Tel: 406-444-2544
Fax: 406-444-2606

Lands Department

Capitol Station
Helena, MT 59620
Tel: 406-444-2074
Fax: 406-444-2684

Natural Resources and Conservation Department

1520 E. Sixth Avenue
Helena, MT 59620-2301
Tel: 406-444-6873
Fax: 406-444-6721

Transportation Department

2701 Prospect Avenue
Helena, MT 59620
Tel: 406-444-6200
Fax: 406-444-7643

NEBRASKA

Agriculture Department

301 Centennial Mall South
P.O. Box 94947
Lincoln, NE 68509
Tel: 402-471-2341
Fax: 402-471-3252

Environmental Control Department

State Office Building
P.O. Box 98922
Lincoln, NE 68509-8922
Tel: 402-471-2186
Fax: 402-471-2909

Roads Department 1500 Nebraska Highway 2

P.O. Box 94759
Lincoln, NE 68509-4759
Tel: 402-471-4567
Fax: 402-479-4325

Natural Resources Commission

301 Centennial Mall South
P.O. Box 94876
Lincoln, NE 68509
Tel: 402-471-2081
Fax: 402-471-3132

NEVADA

Agriculture Department

350 Capitol Hill
P.O. Box 11100
Reno, NV 89510
Tel: 702-688-1180
Fax: 702-688-1178

Conservation and Natural Resources Department

123 W. Nye Lane
Carson City, NV 89710
Tel: 702-687-4360
Fax: 702-687-6972

Minerals Department

400 W. King Street, Suite 106
Carson City, NV 89710
Tel: 702-687-5050
Fax: 702-687-3957

Transportation Department

1263 S. Stewart Street
Carson City, NV 89712
Tel: 702-687-5585
Fax: 702-687-4846

NEW HAMPSHIRE

Environmental Services Department
Six Hazen Drive
Concord, NH 03301
Tel: 603-271-3503
Fax: 603-271-2867

Fish and Game Department
Two Hazen Drive
Concord, NH 03301
Tel: 603-271-3421
Fax: 603-271-1438

Resources and Economic Development
Department
172 Pembroke Road
P.O. Box 856
Concord, NH 03302-0856
Tel: 603-271-3727
Fax: 603-271-2629

Transportation Department
P.O. Box 483
Concord, NH 03301
Tel: 603-271-3734
Fax: 603-271-3734

Public Utilities Commission
Eight Old Suncook Road
Concord, NH 03301
Tel: 603-271-2431
Fax: 603-271-3878

NEW JERSEY

Agriculture Department
John Fitch Plaza
CN 330
Trenton, NJ 08625
Tel: 609-633-7463
Fax: 609-292-3978

Commerce and Economic Development
Department
20 W. State Street
CN 820
Trenton, NJ 08625
Tel: 609-984-6677
Fax: 609-292-9145

Environmental Protection Department
401 E. State Street
CN 402
Trenton, NJ 08625-0402
Tel: 609-292-3131
Fax: 609-984-3962

Transportation Department
1035 Parkway Avenue
CN 600
Trenton, NJ 08625
Tel: 609-530-2001
Fax: 609-530-3893

Port Authority of New York and New
Jersey
One World Trade Center
New York, NY 10048
Tel: 212-435-7000

NEW MEXICO

State Engineer-Interstate Stream
Commission
101 Bataan Memorial Building
Santa Fe, NM 87503
Tel: 505-827-6091

Agriculture Department
P.O. Box 30005, Dept. 3189
Las Cruces, NM 88003-0005
Tel: 505-646-3007
Fax: 505-646-3303

NEW MEXICO cont'd
Energy, Minerals and Natural Resources
Department
2040 S. Pacheco
Santa Fe, NM 87505
Tel: 505-827-5950

Environment Department
Harold Runnels Building
1190 St. Francis Drive
Santa Fe, NM 87503
Tel: 505-827-2850

Game and Fish Department
Villagra Building
Santa Fe, NM 87503
Tel: 505-827-7911
Fax: 505-827-7915

Highway and Transportation Department
P.O. Box 1149
Santa Fe, NM 87504-1149
Tel: 505-827-5100
Fax: 505-827-3214

NEW YORK

Environmental Conservation Department
50 Wolf Road
Albany, NY 12233
Tel: 518-457-5400
Fax: 518-457-1088

Transportation Department
W.A. Harriman Campus
Building 5
Albany, NY 12232
Tel: 518-457-6195
Fax: 518-457-4021

Parks, Recreation and Historic
Preservation Office
Empire State Plaza
Building One
Albany, NY 12238
Tel: 518-474-0456
Fax: 518-474-4492

Equalization and Assessment Division
16 Sheridan Avenue
Albany, NY 12210-2714
Tel: 518-474-1700
Fax: 518-474-3864

Port Authority of New York and New
Jersey
One World Trade Center
New York, NY 10048
Tel: 212-435-7000
Fax: 212-435-4173

NORTH CAROLINA

Agriculture Department
One W. Edenton Street
P.O. Box 27647
Raleigh, NC 27611
Tel: 919-733-7125

Environmental, Health and Natural
Resources Dept.
P.O. Box 27687
Raleigh, NC 27611
Tel: 919-733-4984
Fax: 919-733-0513

Transportation Department
One S. Wilmington Street
P.O. Box 25201
Raleigh, NC 27611
Tel: 919-733-2520
Fax: 919-733-9150

NORTH DAKOTA

Agriculture Department
State Capitol, 6th Floor
600 E. Boulevard Avenue
Bismarck, ND 58505-0020
Tel: 701-224-2231
Fax: 701-224-4567

NORTH DAKOTA cont'd

Game and Fish Department
100 N. Bismarck Expressway
Bismarck, ND 58501
Tel: 701-221-06300

Land Department
918 E. Divide Ave., Suite 410
P.O. Box 5523
Bismarck, ND 58502-5523
Tel: 701-224-2800
Fax: 701-255-7143

Transportation Department
608 E. Boulevard Avenue
Bismarck, ND 58505-0700
Tel: 701-224-2500
Fax: 701-224-4545

OHIO

Administrative Services Department
Computer and Information System
Services Division
30 E. Broad Street, 40th Floor
Columbus, OH 43266-0401
Tel: 614-466-6920
Fax: 614-644-9152

Highway Safety Department
240 Parsons Avenue
P.O. Box 7167
Columbus, OH 43266-0563
Tel: 614-466-2550
Fax: 614-752-8410

Natural Resources Department
Fountain Square
Columbus, OH 43224-1387
Tel: 614-265-6565
Fax: 614-262-2197

Transportation Department
25 S. Front Street
Columbus, OH 43215
Tel: 614-466-2335

Environmental Protection Agency
1800 Watermark
P.O. Box 1049
Columbus, OH 43266-0149
Tel: 614-644-3020
Fax: 614-644-2329

OKLAHOMA

Agriculture Department
2800 N. Lincoln Blvd.
Oklahoma City, OK 73105-4298
Tel: 405-521-3864
Fax: 405-521-4912

Mines Department
4040 N. Lincoln Blvd.
Suite 107
Oklahoma City, OK 73105
Tel: 405-521-3859
Fax: 405-424-4932

Tourism and Recreation Dept.
500 Will Rogers Memorial Bldg.
Oklahoma City, OK 73105
Tel: 405-521-2409

Transportation Department
200 N.E. 21st Street
Oklahoma City, OK 73105
Tel: 405-521-2579
Fax: 405-521-2524

OREGON

Agriculture Department
635 Capitol Street, N.E.
Salem, OR 97310-0110
Tel: 503-378-3773
Fax: 503-378-5529

Energy Department
625 Main Street, N.E.
Salem, OR 97310
Tel: 503-378-4040
Fax: 503-373-7806

OREGON cont'd

Environmental Quality Department
811 S.W. Sixth Avenue
Portland, OR 97204-1390
Tel: 503-229-5696
Fax: 503-229-6124

Fish and Wildlife Department
2501 S.W. First Avenue
P.O. Box 59
Portland, OR 97207
Tel: 503-229-6174
Fax: 503-229-5459

Land Conservation and Development
Department
1175 Court Street, N.E.
Salem, OR 97310
Tel: 503-373-0050
Fax: 503-362-6705

Revenue Department
Revenue Bldg.
955 Center Street, N.E.
Salem, OR 97310
Tel: 503-378-4988
Fax: 503-378-8835

PENNSYLVANIA

Environmental Resources Department
P.O. Box 2063
Harrisburg, PA 17105-2063
Tel: 717-783-2300
Fax: 717-783-8926

Transportation Department
Transportation & Safety Bldg.
Room 1200
Harrisburg, PA 17120
Tel: 717-783-8882
Fax: 717-787-8779

RHODE ISLAND

Environmental Management Department
Nine Hayes Street
Providence, RI 02908
Tel: 401-277-6800
Fax: 401-274-7337

Transportation Department
Two Capitol Hill
Providence, RI 02903
Tel: 401-277-2481
Fax: 401-277-6038

SOUTH CAROLINA

Agriculture Department
P.O. Box 11280
Columbia, S.C. 29211-1280
Tel: 803-734-2210
Fax: 803-734-2192

Health and Environmental Control
Department
2600 Bull Street
Columbia, S.C. 29201
Tel: 803-734-4880

Highways and Public Transportation
Department
955 Park Street
P.O. Box 191
Columbia, S.C. 29202
Tel: 803-737-1302
Fax: 803-737-6385

Land Resources Conservation Commission
2221 Devine Street, Suite 222
Columbia, S.C. 29205
Tel: 803-734-9100
Fax: 803-734-9200

Water Resources Commission
1201 Main Street, Suite 1100
Columbia, S.C. 29201
Tel: 803-737-0800
Fax: 803-765-9080

SOUTH DAKOTA

Agriculture Department
Anderson Building
445 E. Capitol
Pierre, SD 57501-3188
Tel: 605-773-3375
Fax: 605-773-5926

Environment and Natural Resources
Department
Jos Foss Building
523 E. Capitol
Pierre, SD 57501-3181
Tel: 605-773-3151
Fax: 605-773-6035

School and Public Lands
State Capitol
500 E. Capitol
Pierre, SD 57501-5070
Tel: 605-773-3303
Fax: 605-773-3686

Transportation Department
Transportation Building
700 E. Broadway Avenue
Pierre, SD 57501-2586
Tel: 605-773-3265
Fax: 605-773-3921

TENNESSEE

Environmental and Conservation
Department
701 Broadway
Nashville, TN 37243-0345
Tel: 615-742-6758
Fax: 615-742-6594

Transportation Department
700 James K. Polk Building
Nashville, TN 37243-0349
Tel: 615-741-3011
Fax: 615-741-2508

TEXAS

Highways and Public Transportation
Department
125 E. 11th Street
Austin, TX 78701-2483
Tel: 512-463-8585
Fax: 512-475-3072

Public Safety Department
5805 N. Lamar Blvd.
Box 4087
Austin, TX 78773-0001
Tel: 512-465-2000
Fax: 512-483-5708

General Land Office
1700 N. Congress Avenue
Austin, TX 78701-1495
Tel: 512-463-5256

Economic Geology Bureau
The University of Texas
University Station Box X
Austin, TX 78713-7508
Tel: 512-471-1534
Fax: 512-471-0140

Real Estate Commission
P.O. Box 12188
Austin, TX 78711-2188
Tel: 512-459-6544
Fax: 512-465-3998

Water Commission
P.O. Box 13087
Capitol Station
Austin, TX 78711
Tel: 512-463-7830
Fax: 512-463-8317

UTAH

Administrative Services Department
Information Technology Svcs.
3120 State Office Bldg.
Salt Lake City, UT 84114
Tel: 801-538-3003
Fax: 801-538-3844

Agriculture Department
350 N. Redwood Road
Salt Lake City, UT 84116-3030
Tel: 801-538-7100
Fax: 801-538-7126

Natural Resources Department
1636 W. North Temple, Room 316
Salt Lake City, UT 84116-3193
Tel: 801-538-7200
Fax: 801-538-7315

Public Safety Department
4501 S. 2700 West
Salt Lake City, UT 84119
Tel: 801-965-4461
Fax: 801-965-4756

Transportation Department
4501 S. 2700 West
Salt Lake City, UT 84119
Tel: 801-965-4104
Fax: 801-965-4338

Public Safety Department
4501 S. 2700 West
Salt Lake City, UT 84119
Tel: 801-965-4461
Fax: 801-965-4756

Transportation Department
4501 S. 2700 West
Salt Lake City, UT 84119
Tel: 801-965-4104
Fax: 801-965-4338

VERMONT

Development and Community Affairs
Agency
Pavilion Office Building
109 State Street
Montpelier, VT 05609-0501
Tel: 802-828-3211

Human Services Agency
State Complex
103 S. Main Street
Waterbury, VT 05676
Tel: 802-241-2220
Fax: 802-244-8103

Natural Resources Agency
State Complex
103 S. Wissell
Waterbury, VT 05676
Tel: 802-244-6916
Fax: 802-244-1102

Transportation Agency
133 State Street
Montpelier, VT 05633
Tel: 802-828-2657
Fax: 802-828-2024

VIRGINIA

Conservation and Recreation Department
203 Governor St., Suite 302
Richmond, VA 23219
Tel: 804-786-2121
Fax: 804-786-6141

Transportation Secretariat
607 Ninth Street Office Bldg.
Richmond, VA 23219
Tel: 804-786-8032
Fax: 804-371-6381

WASHINGTON

Ecology Department
MS PV-11
Olympia, WA 98504-8711
Tel: 206-459-6000
Fax: 206-459-6007

Natural Resources Department
201 John A. Cherberg Building
Olympia, WA 98504
Tel: 206-753-5308

Transportation Department
Transportation Building
MS KF-01
Olympia, WA 98504-5201
Tel: 206-753-2150
Fax: 206-586-3593

Wildlife Department
600 Capitol Way North
Olympia, WA 98501-1091
Tel: 206-753-5700
Fax: 206-586-0248

WEST VIRGINIA

Commerce, Labor and Environmental
Resources Dept.
R-151 State Capitol Bldg.
Charleston, WV 25305
Tel: 304-348-3255
Fax: 304-348-0362

WISCONSIN

Agriculture, Trade and Consumer
Protection Dept.
801 W. Badger Road
P.O. Box 8911
Madison, WI 53708
Tel: 608-266-7100
Fax: 608-266-1300

Natural Resources Department
P.O. Box 7921
Madison, WI 53707
Tel: 608-266-2621
Fax: 608-266-3579

Revenue Department
P.O. Box 8933
Madison, WI 53708
Tel: 608-266-6466
Fax: 608-266-5718

Transportation Department
P.O. Box 7910
Madison, WI 53707-7910
Tel: 608-266-1113

Geological and Natural History Survey
3817 Mineral Point Road
Madison, WI 53705
Tel: 608-262-1705
Fax: 608-262-8086

WYOMING

Environmental Quality Department
Herschler Building, 4th Floor
122 W. 25th Street
Cheyenne, WY 82002
Tel: 307-777-7937
Fax: 307-634-0799

Transportation Department
5300 Bishop Blvd.
P.O. Box 1708
Cheyenne, WY 82002-9019
Tel: 307-777-4375
Fax: 307-777-4163

Geological Survey
P.O. Box 3008
University Station
Laramie, WY 82071
Tel: 307-766-2286

10. "GIS MARKETS AND STAKEHOLDERS", published by Earthlink, Inc., 141
2287-453-716; Fax: 633-232-416; Tel: ASU 24120 AM, Cambridge, Massachusetts

11. "GIS WORLD", published by Earthlink, Inc., 141
2287-453-716; Fax: 633-232-416; Tel: ASU 24120 AM, Cambridge, Massachusetts

12. "GIS STRATEGIES: A Quarterly Analysis of the Worldwide GIS Market",
published by GIS World, Inc. and Datquest, Inc., 152 East Boardwalk Drive, Suite
250, Fort Collins, CO 80525, USA; Tel: 303-233-4848; Fax: 303-233-2700

13. "GEO INFO SYSTEMS: Applications of GIS and Related Spatial Information
Technologies", published by Advances in Geographic Information Systems
Technologies, Inc., 152 East Boardwalk Drive, Suite 250, Fort Collins, CO
80525, USA; Tel: 303-233-4848; Fax: 303-233-2700

14. "BUSINESS GRAPHICS MAGAZINE", published by GIS World, Inc., 152 East
Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA; Tel: 303-233-4848; Fax: 303-233-2700

15. "GOVERNMENT COMPUTING", published by Earthlink, Inc., 141
2287-453-716; Fax: 633-232-416; Tel: ASU 24120 AM, Cambridge, Massachusetts

PUBLICATIONS & INFORMATION SERVICES

16. "GOVERNMENT COMPUTING", published by Earthlink, Inc., 141
2287-453-716; Fax: 633-232-416; Tel: ASU 24120 AM, Cambridge, Massachusetts

17. "GEOGRAPHIC INFORMATION SYSTEMS LITERATURE", W.J. Ripple,
Editor, published in "Fundamentals of Geographic Information Systems: A
Compendium", William J. Ripple, Editor, by The Society for Photogrammetry and
Remote Sensing and The American Congress on Surveying and Mapping.

18. "1992 INTERNATIONAL GIS SOURCEBOOK", published by GIS World, Inc.,
152 East Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA; Tel: 303-233-4848; Fax: 303-233-2700. List price \$134.95. Available through GIAC at \$101.21 US.

19. "TERRA", The Journal of the American Society for Photogrammetry and Remote
Sensing, 2410 Grosvenor Lane, Suite 210, Bethesda, MD 20814-3160; Tel: 301-493-0208; Fax: 301-493-0208

WASHINGTON
Ecology Department
MS PV-11

APPENDIX I

PUBLICATIONS & INFORMATION SERVICES

1. "**GIS WORLD**, The World's Leading Information Systems Publication", published monthly by GIS World, Inc. 155 East Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA; Tel: 303-223-4848; Fax: 303-223-570 & Washington Bureau, Ms. Brenda Abrams, Manager, Washington Operations, P.O.Box 12349, Silver Spring, MD 20908, USA; Tel: 301-929-3351; Fax: 301-929-3318
2. "**GIS STRATEGIES**, A Quarterly Analysis of the Worldwide GIS Market", published by GIS World, Inc. and Dataquest, Inc, 155 East Boardwalk Drive, Suite 250, Fort Collins, Co 80525, USA; Tel: 303-223-4848; Fax: 303-223-5700
3. "**GEO INFO SYSTEMS**, Applications of GIS and Related Spatial Information Technologies", published by Advanstar Communications, Editorial Offices at 859 Willamette Street, P.O.Box 10460, Eugene, OR 97440-2460, USA; Tel: 503-343-1200, Fax: 503-344-3514
4. "**BUSINESS GRAPHICS MAGAZINE**", published by GIS World, Inc., 155 East Boardwalk Drive, Suite 250, Fort Collins, CO 80525-9945
5. "**GOVERNMENT COMPUTER NEWS**", 8601 Georgia Avenue, Suite 300, Silver Spring, MD, 20910. Tel: 301-650-2129, Fax: 301-650-2111.
6. "**STATE GEOGRAPHIC INFORMATION ACTIVITIES COMPENDIUM**", Warnecke L., Johnson J.M., Marshall K., and Brown R.S.(1992), Lexington, KY: The Council of State Governments. \$79 US, Tel: 1-800-800-1910, Fax: 606-231-1858. A electronic version is also available for \$300 US.
7. "**GEOGRAPHIC INFORMATION SYSTEMS LITERATURE**", W.J. Ripple
"**GEOGRAPHIC INFORMATION SYSTEMS NEWSLETTERS**", J.W. Merchant and L.M. Caron, published in "Fundamentals of Geographic Information Systems: A Compendium, William J. Ripple, Editor, by The Society for Photogrammetry and Remote Sensing and The American Congress on Surveying and Mapping.
8. "**1993 INTERNATIONAL GIS SOURCEBOOK**", published by GIS World, Inc., 155 East Boardwalk Drive, Suite 250, Fort Collins, CO 80525. Tel: 303-223-4848, Fax: 303-223-5700. List price \$134.95. Available through GIAC at \$101.21 US.
9. "**PE&RS**", The Journal of the American Society for Photogrammetry and Remote Sensing, 5410 Grosvenor Lane, Suite 210, Bethesda, MD 20814-2160; Tel:301-493-0290, Fax: 301-493-0208

10. **"GIS MARKETS AND OPPORTUNITIES 1993"**, published by Daratech, Inc., 140 Sixth Street, Cambridge, MA 02142 USA; Tel: 617-354-2339, Fax: 617-354-7822
11. **"EARTH OBSERVATION MAGAZINE"**, Remote Sensing, GIS and GPS in Utility Management, published by EOM, Inc., P.O.Box 3623, Littleton, CO 80161; Tel: 303-690-2242; Annual subscription is \$62 US

1993

3-7 October. Atlanta, GA, USA. The Development of Comprehensive Land Management Plans Using GIS. Contact: Diane Ross-Locch, Pacific Gas and Electric Co., 123 Mission St., H21A, San Francisco, CA 94177, USA (415-973-4695, fax: 415-973-7971).

3-8 October. St. Petersburg, FL, USA. Advanced Traffic Management Systems. Contact: Al Santiago, FHWA (703-285-8952).

4-6 October. New Orleans, LA, USA. International Public Transit Expo '93. Contact: APTA (708-260-9700, 800-323-3133).

5-7 October. Dallas, TX, USA. NetWorld '93. Contact: Bruno Blenheim Inc., Fort Lee Executive Park, One Executive Drive, Fort Lee, NJ 07024, USA (800-829-3976, fax: 201-346-1532).

6-8 October. San Francisco, CA, USA. Third Annual Peak User Group Conference. A Decade of GIS. Contact: Esri, 3801 Central Expressway, Redwood City, CA 94063, USA (415-339-9000, fax: 415-339-9001).

11-15 October. West Lafayette, IN, USA. Strategic Agri Marketing (SAM-11). Contact: Betty Otinger, Purdue University, Center for Agricultural Business (317-494-4247).

13-15 October. Fort Collins, CO, USA. Environmental Applications of GIS. Contact: GIS World, Inc. Training Division, 155 E. Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA (303-223-4848, fax: 303-223-5700).

14-16 October. Toronto, Ontario, Canada. Applied Geography Conference. Contact: Professor N.J. Siller, School of Geography, Ryerson Polytechnic University (416-979-5038).

18-20 October. Houston, TX, USA. The Second Annual Conference and Exhibition on GIS for the Pipeline Industry. Contact: Gulf Publishing Company, PO Box 2608, Houston, TX 77252-2608, USA (713-520-4430, fax: 713-520-4438).

19-20 October. Toronto, Ontario, Canada. Geographic Information Seminar 1993. Contact: Morgan Goadsby (416-314-1269, fax: 416-314-1338).

20-21 October. Richmond, VA, USA. Fourth Annual Virginia GIS Conference. Contact: Virginia Association for Mapping and Land Information Systems, 8752 Landmark Road, Richmond, VA 23228, USA (703-792-6847).

10. "GEO MARKETS AND OPPORTUNITIES 1993", published by DataTech, Inc., 140 Sixth Street, Cambridge, MA 02142 USA; Tel: 617-354-2339; Fax: 617-354-7822

11. "EARTH OBSERVATION MAGAZINE", Remote Sensing, GIS and GPS in Utility Management, published by BOM, Inc. 6000 West 120th Street, Suite 100, Denver, CO 80231 USA; Tel: 303-752-4000; Fax: 303-752-4000

2. "GIS STRATEGIES, A Quarterly Analysis of the Worldwide GIS Market", published by GIS World, Inc. and Dataquest, Inc., 155 East Boardwalk Drive, Suite 250, Fort Collins, Co 80525, USA; Tel: 303-223-4848; Fax: 303-223-5700

3. "GEO INFO SYSTEMS, Applications of GIS and Related Spatial Information Technologies", published by American Communications, Editorial Offices at 859 Wilmette Ave., P.O. Box 10700, Naperville, IL 60563-0700, USA; Tel: 303-343-1200; Fax: 303-344-3514

4. "BUSINESS GRAPHICS MAGAZINE", published by GIS World, Inc., 155 East Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA; Tel: 303-223-4848; Fax: 303-223-5700

5. "GOVERNMENT CONTRACTING", published by Government Contracting, Suite 300, Silver Spring, MD 20910, USA; Tel: 301-493-4000; Fax: 301-493-4000

APPENDIX J

SELECTED GEOMATICS & GIS NORTH AMERICAN INDUSTRY EVENTS

6. "GEOGRAPHIC INFORMATION SYSTEMS COMPENDIUM", published by The Council of State Governments, 375 US, Tel: 1-800-900-1910, Fax: 506-231-1835. A directory of GIS resources for 1993.

7. "GEOGRAPHIC INFORMATION SYSTEMS LITERATURE", W.J. Rippe and J.W. Merchant and J.M. Coker, published in "Fundamentals of Geographic Information Systems: A Compendium", William J. Rippe, Editor, by The Society for Photogrammetry and Remote Sensing and The American Congress on Surveying and Mapping.

8. "1993 INTERNATIONAL GIS SOURCEBOOK", published by GIS World, Inc., 155 East Boardwalk Drive, Suite 250, Fort Collins, CO 80525. Tel: 303-223-4848, Fax: 303-223-5700. List price \$134.95. Available through GIC at \$101.21 US.

9. "ESRI", The Journal of the American Society for Photogrammetry and Remote Sensing, 3410 Greenway Lane, Suite 210, Bethesda, MD 20814-2160; Tel: 301-493-4000; Fax: 301-493-4000

APPENDIX J

SELECTED GEOMATICS & GIS NORTH AMERICAN INDUSTRY EVENTS

(Source: GIS World, Inc., September, 1993)

1993

3-7 October. Atlanta, GA., USA. The Development of Comprehensive Land Management Plans Using GIS. Contact: Diane Ross-Leech, Pacific Gas and Electric Co., 123 Mission St., H21A, San Francisco, CA 94177, USA (415-973-4695, fax: 415-973-7971).

3-8 October. St. Petersburg, FL, USA. Advanced Traffic Management Systems. Contact Al Santiago, FHWA (703-285-2092).

4-6 October. New Orleans, LA, USA. International Public Transit Expo '93. Contact: APTA (708-260-9700, 800-323-5155).

5-7 October. Dallas, TX, USA. NetWorld '93. Contact: Bruno Blenheim Inc., Fort Lee Executive Park, One Executive Drive, Fort Lee, NJ 07024, USA (800-829-3976, fax: 201-346-1532).

6-8 October. San Francisco, CA, USA. Third Annual Etak User Group Conference: A Decade of Mapping Excellence. Contact: Michelle Go, Etak, Inc. (415-328-3825, ext. 216).

11-15 October. West Lafayette, IN, USA. Strategic Agri Marketing (SAM 11). Contact: Betty Ottinger, Purdue University, Center for Agricultural Business (317-494-4247).

13-15 October. Fort Collins, CO, USA. Environmental Applications of GIS. Contact: GIS World, Inc. Training Division, 155 E. Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA (303-223-4848, fax: 303-223-5700).

14-16 October. Toronto, Ontario, Canada. Applied Geography Conference. Contact: Professor N.J. Siller, School of Geography, Ryerson Polytechnic University (416-979-5038).

18-20 October. Houston, TX, USA. The Second Annual Conference and Exhibition on GIS for the Pipeline Industry. Contact: Gulf Publishing Company, PO Box 2608, Houston, TX 77252-2608, USA (713-520-4430, fax: 713-520-4438).

19-20 October. Toronto, Ontario, Canada. Geographic Information Seminar 1993. Contact: Morgan Goadsby (416-314-1269, fax: 416-314-1338).

20-21 October. Richmond, VA, USA. Fourth Annual Virginia GIS Conference. Contact: Virginia Association for Mapping and Land Information Systems, 8752 Landmark Road, Richmond, VA 23228, USA (703-792-6847).

20-22 October. Fort Collins, CO, USA. GIS in Health Care. Contact: GIS World, Inc., Training Division, 155 E. Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA (303-223-4848, fax: 303-223-5700).

20-23 October. Silver Spring, MD, USA. Cartography in a Changing World. Thirteenth Annual Meeting of the North American Cartographic Information Society. Contact: North American Cartographic Information Society, AGS Collection, PO Box 399, Milwaukee, WI 53201, USA.

21 October. Dallas, TX, USA. The North Central Texas Chapter AM/FM International Annual Conference (212-570-4100).

30 October-1 November. Minneapolis, MN, USA. The Eleventh International Symposium on Computer-Assisted Cartography. Contact: Robert B. McMaster, Department of Geography, University of Minnesota, Minneapolis, MN 55455, USA (fax: 612-624-1044).

31 October-4 November. Minneapolis, MN, USA. GIS/LIS '93. Contact: GIS/LIS '93, 5410 Grosvenor Lane, Suite 100, Bethesda, MD 20814-2122, USA (301-493-0200, fax: 301-493-8245).

1-3 November. Halifax, Nova Scotia, Canada. Geomatics Atlantic 1993 Conference. Contact: Geomatics Atlantic, PO Box 2033, Halifax, NS, Canada, B3J 2Z1.

2-4 November. Minneapolis, MN, USA. GIS/LIS '93 Annual Conference and Exposition. Contact: GIS/LIS '93, 1710 16th St. NW, Washington, DC, 20009-3198, USA (fax: 202-234-2744).

3-5 November. Montreal, Quebec, Canada. Geomatics IV. Contact: ACSG, section Montreal, C.P. 1084, Succursale Desjardins, Montreal, Quebec, Canada, H5B 1C2 (514-463-2988, fax: 514-495-4191).

8-10 November. Washington, DC, USA. Satellite Microwave Remote Sensing and Applications. Contact: The George Washington University, School of Engineering and Applied Science (202-994-2337, fax: 202-872-0645).

9-10 November. Arlington Heights, IL, USA. Third Annual GIS in Illinois Conference. Contact: Dr. Richard E. Dahlberg, Department of Geography, Northern Illinois University, DeKalb, IL 60115, USA (815-753-6872, fax: 815-753-6872).

15-19 November. Washington, DC, USA. Synthetic Aperture Radar with Remote-Sensing Applications. Contact: The George Washington University, School of Engineering and Applied Science (202-994-2337), fax: 202-872-0645).

17-19 November. Fort Collins, CO, USA. GIS in Banking. Contact: GIS World, Inc. Training Division, 155 E. Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA (303-223-4848, fax: 303-223-5700).

6-10 December. Corpus Christi, TX, USA. GIS in Oil and Hazardous Materials Spill Prevention and Response. Contact: Gary Jeffress, National Spill Control School, Corpus Christi State University (512-994-2720).

9-10 December. Fort Collins, CO, USA. GIS in Real Estate. Contact: GIS World, Inc. Training Division, 155 E. Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA (303-223-4848, fax: 303-223-5700).

1994

4-7 January. Maui, HI, USA. Twenty-Seventh Annual Hawaii International Conference on System Sciences with Minitrack on GIS. Contact: Pamela S. Harrington, Conference Coordinator, HICSS-27 Conference Office, Center for Executive Development, University of Hawaii, 2404 Maile Way, B-101, Honolulu, HI 96822, USA (808-956-7396, fax: 808-956-3766).

31 January-2 February. New Orleans, LA, USA. The Second Thematic Conference on Remote Sensing for Marine and Coastal Environments. Contact: ERIM/Marine Environment, PO Box 134001, Ann Arbor, MI 48113-4001, USA (313-994-1200, ext. 3234, fax: 313-994-5123).

7-10 February. Vancouver, British Columbia, Canada. GIS '94, Eighth Annual Symposium: GIS in Forestry, Environmental and Natural Resources Management. Contact: Symposium Office, 1040 Hamilton St., Vancouver, BC Canada, V6B 2R9 (604-688-0188, fax: 604-688-1573).

21-24 February. Vancouver, Ontario, Canada. Eighth Annual Symposium on Geographical Information Systems (GIS '94). Contact: GIS '94 Symposium Office, Suite 207, 1102 Homer St., Vancouver, BC V6B 1X6, Canada (404-688-0188, fax: 604-688-1574).

12-18 March. Reston, VA, USA. Ninth Annual GRASS GIS Users' Conference and Exhibition. Contact: Pamela Cashman, Conference Manager, Open GRASS Foundation, Center for Remote Sensing, Boston University, 725 Commonwealth Ave., Boston, MA 02215, USA (617-353-5642, fax: 617-353-6365).

14-17 March. Denver, CO, USA. AM/FM International Annual Conference XVII. Contact: Paula Delie, AM/FM International, 14456 E. Evans Ave., Aurora, CO 80014-1409, USA (303-337-0513, fax: 303-337-1001).

2-6 April. San Francisco, CA, USA. AAG Annual Meeting. Contact: Association of American Geographers (202-234-1450, fax: 202-234-2744).

17-20 April. Atlanta, GA, USA. IVHS AMERICA Fourth Annual Meeting. Contact: IVHS AMERICA, 1776 Massachusetts Ave., NW, Suite 510, Washington, DC 20036-1993, USA (202-857-1202, fax: 202-296-5408).

18-21 April. Miami, FL, USA. The International Emergency Management and Engineering Conference. Contact: The International Emergency Management and Engineering Society (TIEMES), 2995 LBJ Freeway, Suite 200, Dallas, TX 75234, USA (214-888-8804, fax: 214-270-3014).

25-28 April. Reno, NV, USA. 1994 ASPRS/ACSM Annual Convention. Contact: Denise Cranwell, ASPRS/ACSM '94, 5410 Grosvenor Lane, Bethesda, MD 20814-2122, USA (301-493-0200, fax: 301-493-8245).

9-12 May. San Antonio, TX, USA. Tenth Thematic Conference on Geologic Remote Sensing. Contact: Nancy J. Wallman, ERIM/Thematic Conferences, P.O. Box 134001, Ann Arbor, MI 48113-4001, USA (313-994-1200, ext. 3234, fax: 313-994-5123).

16-20 May. Williamsburg, VA, USA. Spatial Accuracy of Natural Resource Databases. Contact: James L. Smith, Dept. of Forestry, 319 Cheatham Hall, Virginia Tech, Blacksburg, VA 24061-0324, USA (703-231-7811, fax: 703-231-3330).

5-8 June. San Francisco, CA, USA. GIS in Business '94 (GIB'94). Contact: GIS World, Inc., 155 E. Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA (303-223-4848, fax: 303-223-5700).

6-10 June. Ottawa, Ontario, Canada. The Canadian Conference on GIS, Sixth International Conference on GIS and the Symposium of ISPRS Commission II, Systems for Data Processing, Analysis and Representation. Contact: Dr. Mosaad Allam, Chairman, GIS 1994 Conference and ISPRS II Symposium, 615 Booth St., Seventh Floor, Ottawa, ON, Canada K1A 0E9 (613-996-2812, fax: 613-952-0916).

20-23 June. Washington, DC, USA. A/E/C SYSTEMS '94. Contact: Sharon Price, A/E/C SYSTEMS '94, PO Box 310318, Newington, CT 06131-0318, USA (203-666-6097, fax: 203-666-4782).

7-11 August. Milwaukee, WI, USA. URISA '94. Contact: The Urban and Regional Information Systems Association, 900 Second St. N.E. Suite 304, Washington, DC 20002, USA (202-289-1685).

24-28 September. Washington, DC, USA. First Federal Geographic Technology Conference, Federal Geographic Technology '94 (FGT'94). Contact: GIS World, 155 E. Boardwalk Drive, Suite 250, Fort Collins, CO 80525, USA (303-223-4848, fax: 303-223-5700).

23-28 October. Phoenix, AZ, USA. GIS/LIS'94. Contact: GIS/LIS'94, 5410 Grosvenor Lane, Suite 100, Bethesda, MD 20814-2122, USA (301-493-0200, fax: 301-493-8245).

APPENDIX K

SELECT PRIME CONTRACTORS SERVING FEDERAL GOVERNMENT

Earth Observation Satellite Co. (EOSAT)
4300 Forbes Blvd
Lanham, MD 20646
TEL: (301) 552-0300
FAX: (301) 552-0300

Electronic Data Systems (EDS)
13730 Riverport Drive
Maryland Heights, MO 63043
TEL: (800) 832-4321
FAX: (314) 344-5425

Hughes STX Satellite
Automated Mapping, CAD, GIS
50702 MD, Lanham
TEL: (518) 292-9999

IBM Corp.
7700 Bay Area
Houston, TX 77058
TEL: (713) 217-1317

ERDAS, Inc.
2801 Buford Highway
Atlanta, GA 30319
TEL: (404) 248-0000
FAX: (404) 248-0100

IBM Corp.
7700 Bay Area
Houston, TX 77058
TEL: (713) 217-1317

IBM Corp.
7700 Bay Area
Houston, TX 77058
TEL: (713) 217-1317

Anderson Consulting
901 Main Street, Suite 2000
Dallas, TX 75202
TEL: (214) 421-4200
FAX: (214) 421-4200

Computer Sciences Corp.
15245 Sandy Grove Road
Rockville, MD 20850
TEL: (301) 921-3388
FAX: (301) 921-3000

Computer Sciences Corp.
15245 Sandy Grove Road
Rockville, MD 20850
TEL: (301) 921-3388
FAX: (301) 921-3000

Computer Sciences Corp.
15245 Sandy Grove Road
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FAX: (301) 921-3000

Computer Sciences Corp.
15245 Sandy Grove Road
Rockville, MD 20850
TEL: (301) 921-3388
FAX: (301) 921-3000

18-21 April, Miami, FL, USA, 1993
Conference on GIS/RS/94, 3410 Greenway
(TIEMPA, 301-493-0200, fax: 301-493-8243)
270-3014)

APPENDIX K

SELECT PRIME U.S. CONTRACTORS SERVING FEDERAL GOVERNMENT

Anderson Consulting
(Div. Arthur Anderson & Co., S.C)
901 Main Street, Suite 5600
Dallas, TX 75202
TEL: (214) 741-8682
FAX: (214) 741-8686
Contact: Julie Nelson
Total No. of Employees: 25,100
Products & Services:
GIS Consulting, SW Development,
System Integration

Computer Sciences Corp.
15245 Shady Grove Road
Rockville, MD 20850
TEL: (301) 921-3289
FAX: (301) 921-2069
Wayne Kelly, Marketing Director
Total No. of Employees: 21,830
Products & Services:
GIS Consulting, Table Digitizing,
Scan Digitizing, SW Development,
Syst. Integration, GPS Services,
Mapping, Field Data Acquisition

Data General Corp
3400 Computer Drive
Westboro, MA 01580
TEL: (508) 898-4178
FAX: (508) 898-2684
Contact: Michael Fisher
Total No. of Employees: 8,000
Products & Services:
GIS SW, HW, SW Development,
Syst. Integration, Implementation
Services

Electronic Data Systems (EDS)
13736 Riverport Drive
Maryland Heights, MO 63043
TEL: (800) GDS-4491
FAX: (314) 344-8425
Scott Bell, Bus. Development Manager
Total No. of Employees: 65,000
Products & Services:
SW, GIS, Facilities Management,
Automated Mapping, CAD, CAE,
GIS Consulting, Syst. Integration

Environmental Systems Research Inst. Inc. (ESRI)
380 New York Street
Redlands, CA 92373
TEL: (714) 793-2853
FAX: (714) 793-5953
Contact: ESRI Marketing
Total No. of Employees: 600
Products & Services:
SW, GIS Facilities Management, FM/AM,
DBMS, Digitizing, Format conversion,
Remote sensing, CAD, HW, GIS Consulting,
Table/Scan Digitizing, SW Devel.

ERDAS, Inc.
2801 Buford Highway
Atlanta, GA 30319
TEL: (404) 248-9000
FAX: (404) 248-9400
Contact: Kurt Schwoppe
Total No. of Employees: 110
Products & Services:
SW, GIS, FM/AM, Digitizing, Format
conversion, Remote sensing, HW,
Plotters, Scanners, GIS Consulting,
Table/Scan Digitizing, SW development
Photo interpret., Field Data Acquisition

Earth Observation Satellite Co.(EOSAT)
4300 Forbes Blvd.
Lanham, MD 20706-9954
TEL: (301) 552-0500
FAX: (301) 5520507
Steve Cox, Marketing Director
Total No. of Employees: 100
Products & Services:
Remote Sensing, Satellite Imagery
for direct input to GIS,
Support services
Table/Scan Digitizing, SW devel., Photo interpret.

Hughes STX Satellite Mapping Technologies
4400 Forbes Blvd.
Lanham, MD 20706
TEL: (800) 992-8516
FAX: (301) 306-0963
Contact: Richard Irish
Total No. of Employees: 1,200
Products & Services:
SW, GIS, Automated Mapping, DBMS,
Remote sensing, DTM, Digitizing,
GIS Consulting, Table/Scan Digitizing,
SW Devel, Syst. Integ. Photo interp.

I-NET, Inc.
6430 Rockledge Drive
Bethesda, MD 20817
TEL: (301) 564-6700
FAX: (301) 564-6772
Contact: George B. Korte
Total No. of Employees: 600
Products & Services:
GIS, FM/AM, DBMS, Digitizing,
CAD, GIS Consulting, Table/Scan Digitizing,
HW, SW Devel, Syst. Integ.

IBM Corp.
3700 Bay Area Blvd.
Houston, TX 77058
TEL: (713) 335-3201
FAX: (713) 335-3422
Herb Demsky, Marketing Director
Total No. of Employees: 300,000
Products & Services:
SW, GIS, FM/AM, DBMS, Digitizing,
Format conversion, CAD, GIS Consulting,
HW, SW Devel, Syst. Integ.

Grumman Data Systems and Services Group
1111 Stewart Ave.
Bethpage, NY 11714
TEL: (516) 682-8383
FAX: (516) 682-8730
William Wertz, Dir. Bus. Development
Total No. of Employees: 2,500
Products & Services:
SW, GIS, FM/AM, DBMS, Digitizing, Remote
sensing, GPS, CAD, HW, GIS Consulting,

Science Applications International Corp (SAIC)
1710 Goodridge Drive
McLean, VA 22102
TEL: (703) 821-4443
FAX: (703) 356-3176
Contact: James E. Russell
Total No. of Employees: 13,500
Products & Services:
SW, GIS, FM/AM, DBMS, Digitizing,
Format conversion, Remote sensing,
Orthorectification, GIS Consulting,
Table/Scan Digitizing, Aerial Photo.
SW Devel, Syst. Integ. Photo interp.

American Management Systems, Inc
1777 North Kent Street
Arlington, VA 22209
TEL: (703) 841-6000
FAX: n/a
Charles Rossotti, CEO
Total No. of Employees: n/a
Products & Services:
Computer syst.engineering,
SW devel., Proj. mgmt

BTG, Inc.
1945 Old Gallows Road
Vienna, VA 22182
TEL: (703) 556-6518
FAX: (703) 556-9290
Edward H. Bershoff, Pres. & CEO
Scott Reuther, VP Devel
Total Number of Employees n/a
Products & Services:
Comp. Systs, Eng. Services for
Defense & Civil sector

Intergraph Corp.

Huntsville, AL 35894-0001

TEL: (800) 826-3515 (205) 730-2700

FAX: (205) 730-2461

Robert Glasier, Marketing Director

Total No. of Employees: 10,000

Products & Services:

SW, GIS, FM/AM, DBMS, Digitizing,

Format conversion, Remote sensing,

CAD, Scanning, Plotting, HW,

GIS Consulting, SW Devel, Syst. Integ.

Entek

1901 North Beauregard Street

Suite 105

Alexandria, VA 22311

TEL: (703) 578-5900

FAX: (703) 578-5999

Daniel R. Rodriguez, Pres

Total Number of Employees: 85

Products & Services

Eng. services to Public

& Private sector. Info syst

and SW Devel

GTE Government Systems**Federal Systems Division**

15000 Conference Center Drive

Chantilly, VA 22021

TEL: (703) 818-4000

FAX: (703) 818-5484

John R. Messier, VP & GM

Total Number of Employees: 1500

Products & Services:

Inter. Syst. for Info Processing,

SW devel

Loral Corp

1111 Jefferson Davis Highway

Suite 811

Arlington, VA 22202

TEL: (703) 685-5500

FAX: n/a

Bernard L. Schwartz Chairman & CEO

George L. Monahan, VP Wash Operations

Total Number of Employees: 1095

Products & Services:

Defense electronics, Space commun.

Satellites

CACI International, Inc.

1100 North Glebe Road

Arlington, VA 22201

TEL: (703) 841-7800

FAX (703) 522-6895

J.P. London, Pres. & CEO

Total Number of Employees: n/a

Products & Services

Info. Syst. & High Tech Services

Syst. intergration, SW services

PRC

1500 PRC Drive

McLean, VA 22102

TEL: (703) 556-1000

FAX: (703) 556-1174

Gary D. Kennedy, Pres. & CEO

Total Number of Employees: 7200

Products & Services:

Info Services, Syst Integration,

SW devel.

PSI International, Inc.

10306 Eaton Place

Suite 400

Fairfax, VA 22030

TEL: (703) 352-8700

FAX: (703) 352-8236

Dr. Elizabeth Pan, CEO

Total Number of Employees: 200

Products & Services:

Integrated Syst. & support serv.,

Imaging technology,

TRW Systems Integration Group

1 Federal Systems Park Drive

Fairfax, VA 22033

TEL: (703) 968-1700

FAX: (703) 803-5108

John Stenbet, Group VP

Total Number of Employees: 3,000

Products & Services:

Systs. Integration for DOD, NASA

& Federal civilian agencies,

SW devel.

Paramax Systems Corp.

8201 Greensboro Drive
Suite 1000
McLean, VA 22102
TEL: (703) 847-3200
FAX: n/a

Frederick F. Jenny, Pres.

Total Number of Employees: 2600

Products & Services:

Advanced Integrated Syst,
Electronic prods., Prof Services

Vitro Corp.

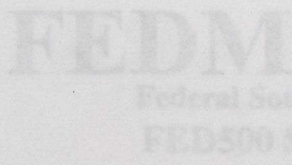
1400 Georgia Avenue
Silver Spring, MD 20906
TEL: (301)231-1300
FAX: (301) 231-2390

Mercade A. Cramer, Jr. Pres & CEO

Total Number of Employees: n/a

Products & Services:

Systs Eng., Info Eng., Tech services
Major customer is NASA



STATUS : The RFP is under development and has not been completed.

ESTIMATED VALUE (\$000'S) : 2600 PHASE : 1 - Pre RFP

DURATION/TYPE :

Five years.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
R	DRAFT : / /	RFP :	Soil Conservation Service
V	DPA : 08/30/93	DPA : 41-01904	ISD Division
R	RFP : 11/01/94	APR IN DATABASE : YES	Fort Collins, CO
R	PROPS : 12/01/94	CONTRACT1 : 5733A01	Bernard Schafer 3032821974
R	AWARD : / /	CONTRACT2 : 57427301	Della Spader 3032821986

BUDGETS (\$000'S)	SPENDING (\$000'S)	OPPORTUNITIES	OFFICE
1994 : 0	1990 : 1,193		Office of Acquisition
1995 : 0	1991 : 0		1424 & Independence Ave., SW
1996 : 0	1992 : 4,344		Washington, D.C. 20250
1997 : 0	1993 : 6,728		Steve Willett 202-265-2957
1998 : 0	1994 : 1,435		Julian Munno 202-726-3942

DESCRIPTION

The U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS), is re-competing their Technical Support Services contract for automated system development at their facility in Fort Collins, Colorado. The support is for the "USDA Field Office of the Future" and "GIS (Geographical Information System) Fast Track", which are initiatives under the Departmental Info Share project. This is a competitive small business set-aside procurement.

SERVICE

The contractor will provide systems design and software development support for SCS's custom information applications. Approximately 70 projects are underway in various stages of development from initial studies to fully operational products. Most are UNIX-based systems.

Required services include developing and refining GIS technology functional specifications, testing and converting operational production versions of the prototyped systems, software documentation and quality assurance. The

Intergraph Corp.
 Huntsville, AL 35894-0001
 TEL: (205) 295-5500
 FAX: (205) 295-5500
 Robert Glasser, Marketing Director, Federal Division
 Total Number of Employees: 10,000
 Products & Services: Defense electronics, space systems, satellites

Parsons Systems Corp.
 8201 Greenboro Drive
 Suite 1000
 McLean, VA 22102
 TEL: (703) 847-5500
 FAX: (703) 847-5500
 Fredrick P. Jansz, President, Federal Division
 Total Number of Employees: 200
 Products & Services: Advanced integrated systems, software, systems integration, SW level

Eates
 1901 North Boulevard Street
 Suite 100
 Alexandria, VA 22311
 TEL: (703) 578-5500
 FAX: (703) 578-5500
 Daniel E. Rodriguez, Pres
 Total Number of Employees: 45
 Products & Services: Eng. services to Public & Private sector. Info syst. and SW level

NSC
 1300 P.O. Box
 Suite 100
 Fairfax, VA 22031
 TEL: (703) 578-5500
 FAX: (703) 578-5500
 Guy D. Kennedy, Pres. & CEO
 Total Number of Employees: 200
 Products & Services: Integrated systems, systems integration, SW level

GTE Government Systems
 Federal Systems Division
 15000 Conference Center Drive
 Chantilly, VA 22021
 TEL: (703) 818-5484
 FAX: (703) 818-5484
 John R. Mauser, VP & GM
 Total Number of Employees: 1500
 Products & Services: Inter. Syst. for Info Processing, SW level

APPENDIX I

SELECTED GIS RELATED FEDERAL OPPORTUNITIES FY95

Loral Corp
 1111 Jefferson Davis Highway
 Suite 611
 Arlington, VA 22202
 TEL: (703) 683-5500
 FAX: 0/0
 Bernard L. Schwartz, Chairman & CEO
 George L. Moskowitz, VP-Wash Operations
 Total Number of Employees: 1000
 Products & Services: Defense electronics, space systems, satellites

TRW Systems International Group
 1 Federal Systems Park Drive
 Fairfax, VA 22031
 TEL: (703) 968-1700
 FAX: (703) 968-1700
 John S. Smith, Group VP
 Total Number of Employees: 7,000
 Products & Services: Space systems for DOD, NASA & Federal civilian agencies, SW level

FEDMARK

Federal Sources, Inc.

FED500 Section

Updated through : SEPTEMBER 1994

PROGRAM : SCS TECHNICAL SUPPORT SERVICES **UPDATE** : 09/08/94
DEPT : AGRICULTURE **AGENCY** : SCS
STATUS : The RFP is under development and has not been synopsised.

ESTIMATED VALUE (\$000'S) : 20000 **PHASE** : 1 - Pre RFP

DURATION/TYPE :

Five years.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : / /	RFP :	Soil Conservation Service
Y	DPA : 08/30/93	DPA : 93-0430A	IRM Division
N	RFP : 11/01/94	APR IN DATABASE: YES	Fort Collins, CO
N	PROPS : 12/01/94	CONTRACT1 : 533JJA01	Bernard Schafer3032821974
N	AWARD : / /	CONTRACT2 : 5382TS201	Debbie Sanders 3032821989

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 1,183	Office of Acquisition
1995 : 0	1991 : 0	14th & Independence Ave., SW
1996 : 0	1992 : 4,344	Washington, D.C. 20250
1997 : 0	1993 : 6,728	Steve Willett 202-205-2957
1998 : 0	1994 : 1,435	Joanne Munno 202-720-3942

DESCRIPTION

The U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS), is recompeting their Technical Support Services contract for automated system development at their facility in Fort Collins, Colorado. The support is for the "USDA Field Office of the Future" and "GIS (Geographical Information System) Fast Track," which are initiatives under the Departmental Info Share project. This is a competitive small business set-aside procurement.

SERVICE

The contractor will provide systems design and software development support for SCS's custom automated applications. Approximately 70 projects are underway in various stages of development from initial studies to fully operational products. Most are UNIX-based systems.

Required services include developing and refining GIS technology functional specifications, testing and converting operational production versions of the prototyped systems, software documentation and quality assurance. The

Federal Sources, Inc.

FED500 Section

Updated through : SEPTEMBER 1994

GIS databases are relational databases that will share spatial data with other USDA agencies, mainly the Forest Service, as well as with the Department of Interior's U.S. Geological Survey (USGS).

BACKGROUND

The incumbent is Advanced Data Concepts (ADC) of Portland, Oregon. USDA awarded a \$15 million contract to ADC in October 1989 (contract no. 533JJA01). Maxima is a subcontractor on the project. According to the SCS's Agency Procurement Request, additional funds were required as ADC entered the fourth year of their contract, which is scheduled to expire in September 1994. Refer to SCS's Agency Procurement Request available in FEDMARK (DPA 93-0419, dated August 31, 1993).

Prototype development during FY92 and FY93 was provided by an 8(a) firm, Management Assistance Corporation of America (MACA) of El Paso, Texas (contract nos. 5382TS201 and 5382TS301). Refer to SCS's Agency Procurement Request of September 29, 1993, available in FEDMARK (DPA 93-0535, dated September 30, 1993). MACA's reported spending for those two years totals approximately \$1.2 million. In addition, SCS contracts with Computer Data Systems Inc. through the GSA schedule for related software support services.

A separate Delegation of Procurement Authority is not necessary since this procurement is being conducted under the Info Share Trail Boss DPA. There is not a separate line item in the USDA FY95 A-11 43Bs for this effort (refer to the Fed-500 program INFO SHARE for more detailed information). The estimated value of this program is based on the incumbent's contract spending.

The solicitation has not been synopsisized. Per the Program Office in Fort Collins, there are no plans at this time to extend either ADC's or MACA's existing contract vehicles. Another contract vehicle will be used to provide for continued support until the follow-on acquisition is completed. The RFP is under development but will be delayed for several months. An accurate release date cannot be projected at this stage.

POTENTIAL BIDDERS:

Advanced Data Concepts/Maxima

CEXEC

Horizon Management Systems Inc.

ID Enterprises

Keystone Computer Resources

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FED500 Section

Updated through : SEPTEMBER 1994

PROGRAM : AIRM **UPDATE** : 09/08/94
DEPT : EPA **AGENCY** :
STATUS : Amendment 1 issued 8/22/94. Proposals are still due 9/15/94.
ESTIMATED VALUE (\$000'S) : 40000 **PHASE** : 2 - RFP released

DURATION/TYPE :

5 years. Cost-plus-fixed-fee, Indefinite Delivery/Indefinite Quantity, Labor hours contract.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
Y	DRAFT : 01/25/94	RFP : W400396A3	EPA/ORD
Y	DPA : 07/06/94	DPA : 94-0004B	401 M Street, SW
Y	RFP : 07/15/94	APR IN DATABASE: NO	Washington, DC 20460
N	PROPS : 09/15/94	CONTRACT1:	Clifford Moore
N	AWARD 01/01/95	CONTRACT2:	202-260-7466

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 0	US EPA (3803F)
1995 : 0	1991 : 0	401 M Street, SW
1996 : 0	1992 : 0	Washington, DC 20460
1997 : 0	1993 : 0	Valerie Garcia 202-260-1227
1998 : 0	1994 : 0	

DESCRIPTION

EPA is looking for a contractor to provide ADP Information Resource Management Support (AIRMS) to their Office of Research and Development (ORD) only. The ORD's primary mission is to provide high quality, timely scientific assistance, technical information, and research products to aid management decisions. These key management decisions enable EPA to meet it's goals and fulfill the Agency's mission. The AIRMS contract will provide computer systems design and development and scientific support services for the ORD.

This is a full and open competition. The SIC code is 7373 with the small business size standard of \$18 million.

SERVICE

AIRMS will provide (i) Application/systems development, including scientific and statistical applications, laboratory automation/administration systems, and graphic, imaging, and visual systems; (ii) Scientific and statistical analysis and support of scientific platforms including high performance computer (HPC) systems, remote sensing, geographical information systems (GIS), and modeling systems; (iii) System development of application systems that require subject matter expertise. Examples of subject matter expertise include complex administrative systems, scientific and modeling applications, and scientific visualization applications.

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The tasks ordered under this contract are divided into four major areas: program management; technology transfer; applications and analysis support; and functional services.

EPA's research programs are conducted through six Headquarters Offices and twelve environmental Laboratories across the country. The research focuses on planning process areas needing additional emphasis. The overall planning process engenders an applied research and development program focused on answering key scientific and technical studies supporting immediate regulatory and enforcement decisions. Also, the longer term research program extends the knowledge base of environmental science and anticipates environmental problems. It is for the function of overall planning process and extending the knowledge base of environmental science that AIRMS support is required.

BACKGROUND

AIRMS is not to be considered a follow-on to the TOSS contract. The RFC package was released January 24, 1994. Due to some problems with the original AIRMS RFC diskette, a corrected diskette was sent out February 8, 1994. Comments were received February 18, 1994.

The contracting officers of the FAIR and AIRMS procurements have identified a potential significant conflict of interest (COI) associated with one contractor performing the full systems life-cycle support for ORD. To mitigate or avoid this potential COI situation, contractors will be allowed to compete for either FAIR or AIRMS or both, but will only be eligible to receive one of the two contracts. For example, if a contractor who competes for both is awarded FAIR, it will be ineligible for award of AIRMS. A clause is included in the solicitation notifying potential offerors of the restriction and specifically, the fact that although they can compete for either or both contracts, they can only be awarded one of them. The same restriction applies to the prime contractors' team members and subcontractors as discussed above.

The following are two typical example situations involving work required under AIRMS and FAIR which might give rise to a significant potential COI due to the inherent nature of the systems life cycle functions:

(1) The contractor might design/develop a system under AIRMS, but intentionally or inadvertently not adequately complete the system implementation under AIRMS (i.e., although it works, it does not perform in optimal fashion), and then plan to correct the deficiencies in the system operation and maintenance phase under FAIR, thus providing itself with additional work under FAIR. Thus, intentionally or not, there is the potential that the contractor may perform in such a manner under AIRMS, or manipulate the work required under AIRMS, to create more work for itself under FAIR. (2) The contractor might delay fixing the problems (bugs) in the systems design/development phase under AIRMS until the operation and maintenance phase kicked in under FAIR, thus providing itself with additional work under FAIR.

Therefore, the potential significant COI stems from the concern that if one contractor was awarded both contracts, it could manipulate its work under the contracts, or perform the work required under one of the contracts, in such a manner to obtain a benefit under the other contract. Thus, there is a concern that the contractor's objectivity or

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impartiality in performing the contract would be impaired in that the contractor could perform in a way to serve its own interests and for its own benefit rather than for the Government's interest. It is important to note that EPA does not have the resources available to mitigate or neutralize this potential conflict by either awarding a third party contract for independent verification and validation (IVV) of services to a third contractor or having EPA technical personnel perform IVV.

A CBD synopsis on the AIRMS procurement was issued May 24, 1994, stating that the following information associated with the AIRMS procurement is now available for viewing and electronic downloading; the Technical Library, previous CBD announcements, the RFC, the bidders list, and status information. The documents will be available through an Internet server. Interested parties will need an Internet link in order to access the Internet, File Transfer Protocol (FTP) capability or access to a Gopher Server. The Internet address for FTP is FTP.EPA.GOV. The EPA Internet address for the Gopher Server is GOPHER.EPA.GOV. Upon reaching the EPA Internet address for the Gopher Menu, select the topic entitled "Information about job vacancies, grants, contract"; then the topic "Procurement"; and finally, the topic "AIRMS". Hardcopy versions of the documents may be viewed at the following three locations: 1) EPA Library, Waterside Mall, Wash. DC. 2) US EPA, 79 Alexander Drive, RTP, NC. (Administrative Support) 3) US EPA, EMSL-LV, 944 East Harmon Ave., Las Vegas, NV.

Information related to the AIRMS procurement is now available for electronic download through the EPA Bulletin Board System (BBS). Dial (919) 558-0335 for access to the BBS. This information is still available through the Internet Gopher Server (gopher.epa.gov). New or updated procurement information related to the AIRMS procurement will be posted on the Server every Thursday at 10:00 am (Eastern Standard Time).

The RFP was released on July 15, 1994. The entire RFP will be posted on the Internet Server/Bulletin Board System. The proposal due date is September 15, 1994. The RFP stated that the period of performance will begin January 1, 1995.

Per CBD synopsis on July 19, 1994, questions or comments concerning the RFP must be made through Internet electronic mail or FAX (202) 260-9930/9114. Because of the high volume of calls received on this procurement, phone calls cannot be accepted. The RFP is still available for pick-up or electronic download through the Agency's Bulletin Board Service and/or the Internet Gopher Server. Address for pick-up of the RFP: Fairchild Building, 3rd Floor, Bid and Proposal Room, 499 South Capitol Street, S.W., Washington, DC 20003. Couriers must request RFP #W400396A3 at the bid and proposal room.

Amendment 0001 was issued on August 22, 1994 with questions and answers regarding the solicitation. The proposal due date did not change. The amendment is only available over the BBS or the Internet Server. The information is the exact same whether accessed through the BBS or the Internet.

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POTENTIAL BIDDERS:

- Booz-Allen Hamilton
- CDSI
- PRC
- Hughes
- Lockheed
- Sterling Software
- Subs:
- BDM
- KPMG Peat Marwick
- Martin Marietta
- SAIC

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Updated through : SEPTEMBER 1994

PROGRAM : CLIENT SERVER ENVIRONMENT

UPDATE : 08/31/94

DEPT : DEFENSE MAPPING

AGENCY :

STATUS : The RFP release has slipped to the end of October.

ESTIMATED VALUE (\$000'S) : 0

PHASE : 1 - Pre RFP

DURATION/TYPE :

Four years minimum.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : //	RFP : DMA80094R8102	Deputy Director for IS
N	DPA : //	DPA :	Headquarters, DMA
N	RFP : 10/31/94	APR IN DATABASE: NO	8613 Lee Highway
N	PROPS : //	CONTRACT1 : DMA60088C0022	Fairfax, VA 22031-2137
N	AWARD : //	CONTRACT2 :	Kathleen Smith 285-9100

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 4,532	Defense Mapping Agency
1995 : 0	1991 : 363	12100 Sunset Hills Rd.
1996 : 0	1992 : 4,716	Suite 200, MS J-11
1997 : 0	1993 : 4,293	Reston, VA 22090-3221
1998 : 0	1994 : 0	Mary Ann Klaner 487-8185

DESCRIPTION

The Defense Mapping Agency (DMA) is planning for the migration and re-engineering of functionality residing on two large Unisys mainframes. This is a full and open competition.

SERVICE

The Client-Server Processing Environment (CSPE) will upgrade, re-engineer, and replace existing hardware, software, databases, and operations of the Unisys system, and will integrate and consolidate the DMA digital product holdings.

The contractor will create a Digital Products Data Base (DPDB) to centralize, manage, and store DMA's digital products and associated metadata; migrate and convert digital product holdings from the Cartographic Data Base and other data holdings residing on the Unisys to the DPDB; migrate finished digital products (primarily Digital Terrain Elevation Data (DTED), and Digital Feature Analysis Data (DFAD) from the Digital Production System (DPS) and other DMA Mapping, Charting, and Geodetic (MC&G) systems to the DPDB; re-engineer and migrate existing processing and production flows residing on the Unisys; provide a single user interface to access and retrieve, in graphical and textual form, any stored product and associated metadata; create interfaces to existing

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and emerging DMA systems; and standardize and consolidate the security sanitization and downgrading capabilities to facilitate distribution of DMA's digital products.

The successful offeror will have knowledge in large-scale ADP systems, re-engineering and migration from legacy systems to new systems and technologies, thorough understanding of relevant COTS capabilities and their integration into a production environment, automated digital cartographic production and distribution, and DMA's DPA and other MC&G production systems.

BACKGROUND

The incumbent contractor is Unisys. Their contract revenues are listed in this report.

There is no FY95 A-11 Section 43B line item for this acquisition.

A preproposal conference and demonstration of a CSPE prototype is planned soon after release of the solicitation. A library providing access to applicable documents will be made available to potential interested offerors from the issuance of the solicitation until receipt of best and final offers.

The DMA plans to issue a general information document in the first or second week of September. The document will provide an overview of the procurement.

POTENTIAL BIDDERS:

Harris

CACI

TRW

EDS

GTE

Martin Marietta

AT&T-GIS

Boeing

Andersen Consulting

Systems Research and Applications

Loral Federal Systems Co.

Hewlett-Packard

DEC

Possible Subcontractors:

Silicon Graphics

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PROGRAM : FLOOD MAP DISTRIBUTION CTR

UPDATE : 09/08/94

DEPT : FEMA

AGENCY :

STATUS : Proposals received and are under evaluation.

ESTIMATED VALUE (\$000'S) : 15000

PHASE : 3 - Proposals submitted

DURATION/TYPE :

One base year and four options. Cost plus fixed fee type contract.

LIB DATES

N DRAFT : / /
 Y DPA : 07/27/94
 Y RFP : 10/08/93
 N PROPS : 08/22/94
 N AWARD : / /

REFERENCE NUMBERS

RFP : EMW94R4251
 DPA : 93-0056C
 APR IN DATABASE: YES
 CONTRACT1 : EMW88C2568
 CONTRACT2 :

PROGRAM OFFICE

Office of Acquisition
 Management
 Patricia English
 202-646-4257

BUDGETS (000's)

1994 : 0
 1995 : 0
 1996 : 0
 1997 : 0
 1998 : 0

SPENDING (000's)

1990 : 2,346
 1991 : 2,889
 1992 : 2,688
 1993 : 1,465
 1994 : 0

CONTRACT OFFICE

FEMA
 500 C Street, NW
 Washington, DC 20472
 Patricia English 202-646-4257
 Chandra Lewis 202-646-4686

DESCRIPTION

The Federal Emergency Management Agency Flood Map Distribution Center (FMDC) seeks a contractor to provide the capabilities and services needed to process, print, receive, store and distribute map products and related data material. The FMDC supports the National Flood Insurance Program (NFIP).

This acquisition is a small business set-aside, under SIC Code 7389. The size standard is \$18 million.

** Learning essential for most in firms, so this means
 U.S. small business only.*

SERVICE

Processing of camera-ready materials and related documents for printing, receiving printed map products from government printers, storing and the distribution of map products. Develop an automated data processing (ADP) inventory management system, utilizing commercial off-the-shelf (COTS) software. Contractor shall provide the appropriate technical skills, personnel, space, supplies, equipment, administrative support, environmental storage conditions, ADP system and interface to FEMA's telecommunications system to support the FMDC. Contractor shall maintain the ADP system and improve availability of data to other FEMA systems and personnel. Achieve certification of the security of the system as a "sensitive unclassified system." Contractor shall provide the basis for FEMA to reduce paper inventory and storage space requirements by allowing for the introduction and use of new

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techniques.

This system will increase functionality, reduce operating costs, and meet reporting requirements of the Chief Financial Officers Act of 1990 and other statutes and regulations, and comply with generally accepted accounting principles (GAAP), current Federal Information Processing standards (FIPS), and Federal telecommunications standards (FED-STD). In this environment, FEMA must move from vendor specific/proprietary systems and protocols toward "Government Open Systems."

BACKGROUND

The incumbent contractor is Computer Data Systems Inc. (CDSI).

To assure noninterruption of the mission-critical function which these FIP resources will support, FEMA plans to enter into a one year contract with the incumbent contractor to provide automated data processing and related services.

The Office of Federal Procurement Policy (OFPP) is sponsoring a pilot program which will use past performance as an evaluation factor in the contract award process. This program was identified as a procurement that will participate in the pilot.

A protest was filed by a prospective offeror concerning the published Standard Industrial Classification Code for this procurement. The Small Business Administration determined that the SIC Code for this acquisition should be changed from 4226 to 7389.

A second protest was filed by DDD Co., which caused the due date for receipt of proposals to be extended indefinitely. The protest was filed on January 24, 1994 at the GAO. DDD Company believes that there will be insufficient competition under the size standard of \$3.5 million.

Amendment 4, issued February 23, 1994, established a proposal due date of March 25, 1994 at 3:00PM local time, and also provided answers to questions which were received after release of Amendment A002.

Amendment 5, issued July 21, 1994, reopened the solicitation, and reestablished a due date for proposals of August 22, 1994, at 3:00PM. The Amendment also revised the Statement of Work to delete the requirement for "print on demand"; revised other solicitation provisions and contract clauses; and established the end date for questions as August 4, 1994.

Amendment 6, issued August 11, 1994, provided answers to questions received relating to Amendment 5, and to reiterate the contract type as a total cost plus fixed fee contract.

POTENTIAL BIDDERS:

National Con-Serv

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PROGRAM : MEDS **UPDATE** : 09/08/94
DEPT : INTERIOR **AGENCY** : USGS
STATUS : The proposal due date was extended from 9/15 to 9/29.
ESTIMATED VALUE (\$000'S) : 32000 **PHASE** : 2 - RFP released

DURATION/TYPE :

One base year plus four option years. IDIQ contract.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
Y	DRAFT : 12/17/93	RFP : 8049	DOI, USGS
Y	DPA : 03/25/94	DPA : 94-0233	National Mapping Division
N	RFP : 08/01/94	APR IN DATABASE: YES	Thomas Hampton
N	PROPS : 09/29/94	CONTRACT1: 1408000123511	703-648-4708
N	AWARD: 02/15/95	CONTRACT2:	

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 0	USGS, MS 205B
1995 : 0	1991 : 1,181	Procurement Branch B
1996 : 0	1992 : 782	Reston, VA 22092
1997 : 0	1993 : 679	Maggie Russell 703-648-7366
1998 : 0	1994 : 156	

DESCRIPTION

The National Mapping Division (NMD), administrative Division (AD), Water Resources Division (WRD), Geologic Division (GD), and Information Systems Division (ISD) of the U.S. Geological Survey (USGS) require Modernization Engineering and Development Support (MEDS) services to provide general support of modernization activities and production operations. The NMD requires engineering and development support for its cartographic (mapping) centers to produce, maintain and distribute maps. Additional omnibus software support services to provide broad-based support as needed in execution of mission-related Life Cycle Management activities is required. This support is needed for existing and planned automation projects for all the above-named USGS Divisions. This action will be a full and open competitive procurement.

SERVICE

MEDS program services will include systems analysis, software maintenance for the modernized production and management system, design, development, integration, transition, implementation, and configuration activities in direct support of the NMD Modernization Program and the other USGS divisions listed above.

Omnibus software support services to be acquired include: requirements definition; systems design; systems

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analysis; program testing and maintenance; feasibility studies; technical writing, and user orientation and training. Existing administrative systems to be supported are the Federal Financial System (FFS), Automated Vacancy Announcement Distribution Systems (AVADS), and the Interior Procurement Data System (IDPS).

The divisions have access to Data General, Sun, Silicon Graphics, IBM compatible, Amdahl mainframe, numerous vendors' minicomputers and Novell networked personal computers. These platforms also provide a broad array of operating systems including but not limited to MVS/ESA, Unix, Unix/UTS, OS/2, Sun OS, and DOS. The equivalent of as many as 85 full-time equivalent (FTE) employee positions are projected for this requirement.

BACKGROUND

The MEDS requirement and the Omnibus Software Support Services requirement have been combined into one requirement. (The combined program is still referred to as MEDS.) All previously announced activities are canceled or revised (e.g., the January 1994 pre-solicitation conference),

The estimated value of this program was initially listed as \$9 million. That figure was increased to \$25 million to reflect the added omnibus services. Based on the detailed requirements outlined in the Agency Procurement Request, the estimated value of MEDS is now \$32 million. Total estimated labor hours per RFP Attachment A equals 827,200, with 70% assumed on site and 30% at the contractor facility.

A Request for Comments (RFC) regarding the Omnibus Software Support Services was issued on October 21, 1993; all comments were due on November 22. Another RFC, including a preliminary statement of work for the joint MEDS requirement, was issued on December 17, 1993. The MEDS RFC was mailed to approximately 260 companies. Comments were received on January 5, 1994.

Since the MEDS contract represents a new requirement, there is not an incumbent who is performing the exact services. The USGS, National Mapping Division did award a \$0.6 million contract to CSC at the end of FY90 for cartographic/geographic software services, which are part of the MEDS requirement.

The original Delegation of Procurement Authority number 93-0107 granted in January of 1993 has been canceled. The new Delegation of Procurement Authority for the combined MEDS procurement was granted on March 25, 1994.

The USGS is extending CSC's contract for on-site software systems development and maintenance services. The extension is for a period of up to six months (October 1, 1994 through March 31, 1995). CSC is the only firm that can meet the Government's needs while the new procurement is in process. USGS anticipates a one-month overlap period during which CSC will provide an orderly transition of the ongoing projects and functions to the new contractor. This overlap period will take place when the new contractor is awarded a MEDS delivery order.

The Government intends to award multiple contracts (approximately four) to allow for competition among contractors for the individual task orders. All Department of Interior Bureaus will be authorized to order under these contracts. This contract will be consistent with the recommendations of the National Performance Review

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(NPR) in that it will support the effective use of government resources and electronic government applications.

The RFP was issued on August 1, 1994. The proposal due date of September 15 was extended to September 29 per Amendment 02.

Per RFP Section L, Offerors are encouraged to include the following minimum percentages of small and small disadvantaged businesses in their subcontracting plan:

Small Business Subcontracting: 45% of total subcontracts

Small Disadvantaged Business Subcontracting: 5% of total subcontracts

Amendment 01, effective August 16, provided modifications to the solicitation, including several revisions to the Section B Pricing Tables, and answers to questions. The proposal due date was not extended by Amendment 01.

Amendment 02, effective August 26, provided additional solicitation modifications and extended the proposal due date to September 29.

The possibility of more than one award has actually narrowed the field of bidders for MEDS. Apparently, the competition among winning vendors for each individual task order makes these multiple award contracts less than attractive business opportunities. The Government estimates that successful offerors will prepare approximately 20 proposals on competed tasks per year. Furthermore, CSC is felt to have an edge with their related experience on the Bureau of Land Management's ALMRS project. (Refer to the Fed-500 archived program BLM ADPE MODERNIZATION PROJECT.)

POTENTIAL BIDDERS:

American Management Systems

CBSI

Computer Sciences Corp./TASC/Diversified Business Technologies/Kenrob & Associates

E-Systems

Johnson Controls

Keane Federal Systems

PRC/Anstec/Price Waterhouse

SAIC

Possible Subcontractors:

CBIS

Centech

CEXEC

EDS

ESI & Associates, Inc.

Harris

+ MRJ

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and award is anticipated for May 9, 1994.

There is no data on this procurement in the FY 95 A-11 Section 43B Budget submission to OMB.

POTENTIAL BIDDERS:

- PRC
- EDS
- GTE Corp.
- TRW Inc.
- Synoptic Systems Corp.
- Grumman Data Systems
- Harris
- CBIS Federal
- SAIC

POTENTIAL BIDDERS	CONTRACT OFFICE	SPENDING (000's)	BUDGETS (000's)
T&A	Naval Research Lab. Code 8143	0	1994 : 0
	4333 Overlook Ave. SW	0	1993 : 0
	Washington, DC 20315	0	1992 : 0
LFH	Chris Hendon 202-767-6222	0	1991 : 0
	at 4302-274-7272	0	1990 : 0

DESCRIPTION

The Naval Center for Space and Technology at the Naval Research Laboratory is soliciting proposals for research and basic research in the area of advanced tactical command, control and communication systems. The BAAIAS solicits proposals for C4 type research using COSTINDI and emerging technologies. The ultimate goal of the C4 Branch is to achieve interoperable compatibility of tactical systems using state-of-the-art designs to carry the Armed Forces into the year 2010 and beyond.

SERVICE

Proposals should probe new technologies in the following areas: software development for significantly advanced capabilities of new and existing tactical communications applications, spread-spectrum receivers, micro-RF assembler, Application Specific Integrated Circuits (ASIC), Multi-Chip Modules (MCM), and High Density Interconnect (HDI) design, processor technologies to include real-time DSP, tactical link protocols, INROSEC technologies and implementations, hardware and software for real time data compression and decompression for transmission of imagery, digital map technologies including hardware and software for real-time manipulation, IR sensor systems, distributed network systems with up to 300,000 nodes, personal communications devices, embedded GPS receiver, integration and demonstration support of the above technologies. Real time

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PROGRAM : ATC3

UPDATE : 09/08/94

DEPT : NAVY

AGENCY : ONR

STATUS : The proposal acceptance period ended on 9/01/94.

ESTIMATED VALUE (\$000'S) : 0

PHASE : 3 - Proposals submitted

DURATION/TYPE :

This has not been determined. There can be multiple awards from now until 180 days after 9/1/94.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : //	RFP : BAANRL0493	
N	DPA : //	DPA :	
N	RFP : 09/01/93	APR IN DATABASE: NO	
N	PROPS : 09/01/94	CONTRACT1 :	
N	AWARD : //	CONTRACT2 :	

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 0	Naval Research Lab, Code 8143
1995 : 0	1991 : 0	4555 Overlook Ave, SW
1996 : 0	1992 : 0	Washington, DC 20375-5000
1997 : 0	1993 : 0	Chris Herndon 202-767-6525
1998 : 0	1994 : 0	alt. #202-574-7272

DESCRIPTION

The Naval Center for Space and Technology at the Naval Research Laboratory is soliciting proposals for applied and basic research in the area of advanced tactical command, control and communication systems. This BAA solicits proposals for C4 type research using COST/NDI and emerging technologies. The ultimate goal of the C4I Branch is to achieve interservice compatibility of tactical systems using state-of-the-art designs to carry the Armed Forces into the year 2010 and beyond.

SERVICE

Proposals should probe new technologies in the following areas: software development for significantly advanced capabilities of new and existing tactical communications applications, spread-spectrum receivers, micro-RF assemblers, Application Specific Integrated Circuits (ASIC), Multi-Chip Modules (MCM), and High Density Interconnect (HDI) design, processor technologies to include real-time DSP, tactical link protocols, INFOSEC technologies and implementations, hardware and software for real time data compression and decompression for transmission of imagery, digital map technologies including hardware and software for real-time manipulation, IR sensor systems, distributed network systems with up to 200,000 nodes, personal communications devices, embedded GPS receivers, integration and demonstration support of the above technologies. Real time

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programmability, low power, size requirements and design philosophies consistent with the Navy and other armed Forces must be considered. Creative use of COTS, NDI, as well as emerging state-of-the-art technologies is desired.

BACKGROUND

Proposals for portions and components, as well as potentially applicable technologies, are encouraged. This announcement will be open for one (1) year from the date of this publication. Awards may be made anytime during this year and up to 180 days thereafter. Award decisions will be based on a competitive selection resulting from a peer and/or scientific review. The evaluation criteria areas are in ten areas including creativity, feasibility, technical understanding, and ability to implement. The number and timing of contracts will depend on the quality of proposals received and available funding. The Navy reserves the right to select for award, any, all, part, or none of the responses received.

There will be no formal RFP or other solicitation with regard to this requirement.

So far for CY94, there are no developments to report--no changes in requirements and no awards.

POTENTIAL BIDDERS:

- AT&T
- Battelle
- Booz Allen & Hamilton
- HFSI
- Hughes
- Harris Corp.
- IBM
- Raytheon
- SAIC

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994	0	GSA, I&M Service Spec. Prop.
1995	0	KERCOM G-219 18th & F. N.W.
1996	0	Washington, D.C. 20400
1997	0	Chris Matthews 302-301-2323
1998	0	

DESCRIPTION

The General Services Administration (GSA) requires ADP technical support services to provide maintain update a computerized market survey software/database with a mapping system of commercially available estate in the National Capital Region. This procurement is 100% set aside for small business concerns.

SERVICES

System design, maintenance and ADP support services including user training. Software site license and maintenance of not more than 50 PC installations also are required.

BACKGROUND

The system must be capable of operating on IBM-compatible computers within the Windows 3.1 environment. The software/database and mapping system must be compatible with Novell/Netware v.3.11. This is a new requirement; there is no incumbent. Labor categories required include mostly systems analysts and programmers. The primary users of this commercial real estate mapping service will be the GSA Public Building Service.

The solicitation was released on March 11 with a proposal due date of April 20.

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FED500 Section

Updated through : SEPTEMBER 1994

PROGRAM : REAL ESTATE DATABASE SERVICES

UPDATE : 09/06/94

DEPT : GSA

AGENCY :

STATUS : The award is anticipated for late September or early October.

ESTIMATED VALUE (\$000'S) : 3500

PHASE : 3 - Proposals submitted

DURATION/TYPE :

Base period from award through 09/30/94 plus four option years. Time and Materials contract.

LIB DATES

N DRAFT : //

N DPA : //

Y RFP : 03/11/94

N PROPS : 06/29/94

N AWARD : 09/30/94

REFERENCE NUMBERS

RFP : KECF940016

DPA :

APR IN DATABASE: NO

CONTRACT1 :

CONTRACT2 :

PROGRAM OFFICE

GSA Public Building Svc.

Real Estate Div. (WPE)

7th & D Streets, SW #6654

Washington, D.C. 20405

Marc Rappaport 2022055230

BUDGETS (000's)

1994 : 0

1995 : 0

1996 : 0

1997 : 0

1998 : 0

SPENDING (000's)

1990 : 0

1991 : 0

1992 : 0

1993 : 0

1994 : 0

CONTRACT OFFICE

GSA, IRM Service, Spec. Prog.

KEFC/Rm G-219, 18th & F, N.W.

Washington, D.C. 20405

Chris Matthews 202-501-2522

DESCRIPTION

The General Services Administration (GSA) requires ADP technical support services to provide, maintain and update a computerized market survey software/database with a mapping system of commercially available real estate in the National Capital Region. This procurement is 100% set aside for small business concerns. *7

SERVICES

System design, maintenance and ADP support services including user training. Software site license and maintenance of not more than 50 PC installations also are required.

for Canadians - means you can probably only subcontract to these firms.

BACKGROUND

The system must be capable of operating on IBM-compatible computers within the Windows 3.1 environment. The software/database and mapping system must be compatible with Novell Netware v.3.11. This is a new requirement; there is no incumbent. Labor categories required include mostly systems analysts and programmers. The primary users of this commercial real estate mapping service will be the GSA Public Building Service.

The solicitation was released on March 11 with a proposal due date of April 20.

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Amendment 01, effective April 14, extended the proposal due date to May 4. Another amendment to provide answers to Offerors' questions is in development.

Amendment 02, effective April 29, extended the proposal due date indefinitely.

Amendment 03, effective June 15, provided answers to questions and change pages to the solicitation. The proposal due was extended to June 29. Proposals were received on June 29. The evaluation process will be ongoing throughout the months of July and August. Award is anticipated in September 1994.

POTENTIAL BIDDERS:

- Advanced Technology Systems
- Performance Engineering Corp.
- JG Van Dyke & Associates

[The following text is a faint, mirrored bleed-through from the reverse side of the page and is largely illegible. It appears to contain a table with columns for 'SPENDING (000's)', 'BUDGETS (000's)', and 'DESCRIPTION'. The 'DESCRIPTION' column includes terms like 'Traffic Control', 'Public Transportation Management', and 'Personalized Public Transit'.]

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Updated through : SEPTEMBER 1994

PROGRAM : IVHS

UPDATE : 08/04/94

DEPT : TRANSPORT

AGENCY : FHWA

STATUS : There is no milestone date for selections for the AHS vendors.

ESTIMATED VALUE (\$000'S) : 0

PHASE : 3 - Proposals submitted

DURATION/TYPE :

The systems definition phase of the AHS program is a multi-year effort.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : / /	RFP : DTFH6194X00001	IVHS America
N	DPA : / /	DPA :	Paul Gannon 202-857-1202
Y	RFP : 12/15/93	APR IN DATABASE: NO	Don Toohey 202-973-7872
N	PROPS : 03/18/94	CONTRACT1 :	
N	AWARD : / /	CONTRACT2 :	

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 947	1990 : 0	DoT FHWA Contracts
1995 : 603	1991 : 0	400 7th St. SW, Rm. 4410
1996 : 577	1992 : 0	Washington, DC 20590
1997 : 79	1993 : 0	Ian Newberg 202-366-6182
1998 : 79	1994 : 0	

DESCRIPTION

The Intelligent Vehicle Highway Systems (IVHS) Program will assemble a range of advanced technologies and system concepts that, when used in combination, can improve mobility and transportation productivity, enhance safety, maximize the use of existing transportation facilities, conserve energy resources, and reduce adverse environmental effects. One of the major initiatives of the IVHS is the Automated Highway System (AHS).

SERVICE

There are five IVHS user service areas: Emergency Notification and Personal Security; Automated Roadside Safety Inspections and Commercial Vehicle Administrative Processes; Travel Demand Management; En-route Driver Advisory and Traveler Services Information; and Personalized Public Transit and Public Travel Security. There are proposed operational tests for each of the user service areas. Operational test offers were received on January 6, 1994. Final approval and announcement of the selected offers are expected to take at least three months from the date the offers are received.

For the AHS, the Systems Definition phase will establish AHS performance and design objectives; identify and evaluate alternative AHS system concepts; in 1997, demonstrate the proof-of-technical feasibility of fully

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automated AHS concept alternatives, system or subsystem designs, and key AHS technologies and functions, in a controlled test track environment; select a preferred system approach; demonstrate, test, and evaluate a prototype configuration of the preferred system approach; and prepare system and supporting documentation.

The System Definition phase is expected to be followed by the Operational Evaluation phase in which one or more implementations of the preferred system will be operationally evaluated at selected U.S. locations.

BACKGROUND

The objective is for FHWA to form a partnership with the future AHS stakeholders and users that provides leadership and focus to the nation's AHS efforts. The general Federal role is to act as a leader and a catalyst. Several procurements that relate to IVHS will come the state and local level of government.

The funding information listed is from the FY95 A-11 Section 43B budget submission to OMB.

The House Appropriations Committee report on Transportation and related agencies recommended funding of \$199.8 million for FY1995 for IVHS, plus an additional \$113 million in contract authority provided for this program by the Intermodal Surface Transportation Efficiency Act of 1991.

The Automated Highway System applications are under technical, cost, and business/management review. The Contracting Office said that it is too early to know when the vendors for the cooperative agreements would be selected, but that selections would be made by the end of FY94.

On June 10, 1994, the FHWA advertised a BAA in the Commerce Business Daily. The BAA is to provide funding to small businesses to develop feasibility studies for national IVHS operational tests or deployment projects. The objective of the BAA is to provide the businesses with the opportunity to undertake a preliminary study on several issues, without committing to developing a full scale operational test or deployment project.

The technologies and services which have been identified as critical to the IVHS program are natural choices for the studies. They include Pre-Trip Travel Information, En Route Driver Information, Route Guidance, Ride Matching and Reservation, Traveler Services Information, Incident Management, Travel Demand Management, Traffic Control, Public Transportation Management, En Route Transit Information, Personalized Public Transit, Public Travel Security, Electronic Payment Services, Commercial Vehicle Electronic Clearance, Automated Roadside Safety Inspections, On-Board Safety Monitoring, Commercial Vehicle Administrative Processes, Hazardous Materials Incident Notification, Commercial Fleet Management, Emergency Notification and Personal Security, Emergency Vehicle Management, Longitudinal Collision Avoidance, Lateral Collision Avoidance, Intersection Collision Avoidance, Vision Enhancement for Crash Avoidance, Safety Readiness, Pre-Crash Restraint Deployment, and Automated Vehicle Operation.

POTENTIAL BIDDERS:

SRI International

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George Mason University

Harris

University of Michigan

University of Maryland

SAIC

Arinc

TASC

EER Systems

Ford Motor Co.

Bechtel

IVHS America

IBM

Mitre

Andersen Consulting

Battelle

Johns Hopkins University

Grumman Corp.

Raytheon

Computer Sciences Corp.

Penn State University

Calspan Corp.

General Motors

Martin Marietta

Rockwell

Northrop

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PROGRAM : MIDDS DEVELOPMENT UPDATE : 08/03/94

DEPT : NASA AGENCY : MSFC

STATUS : The program has not been approved. No RFP is planned.

ESTIMATED VALUE (\$000'S) : 0 PHASE : 1 - Pre RFP

DURATION/TYPE :

There is no information on the duration or type of contract.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
Y	DRAFT : 03/07/94	RFP :	
N	DPA : //	DPA :	
N	RFP : //	APR IN DATABASE: NO	
N	PROPS : //	CONTRACT1 :	
N	AWARD : //	CONTRACT2 :	

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 0	NASA MSFC
1995 : 0	1991 : 0	Code AP25B
1996 : 0	1992 : 0	MSFC, AL 35812
1997 : 0	1993 : 0	Jane Maples 205-544-0344
1998 : 0	1994 : 0	Judith Spann

DESCRIPTION

NASA and the U.S. Air Force plans to replace of the Meteorological Interactive Data Display System (MIDDS). MIDDS is a special purpose geographic information system (GIS) which is used to assess the weather conditions for space vehicle launches and landings, potential weather hazards for vehicle movement, and for other test and mission support at Cape Canaveral.

There is no RFP planned at this time.

SERVICE

The current system would be replaced with a workstation-based distributed computing environment, based on open systems concepts, with the capability for distributed network administration and security. Some of the open systems concepts include Posix, X-Windows 11, Motif, TCP/IP, and Open GL. A client/server system would be essential to the meteorological software subsystem.

There are five primary components of the system: Meteorological software subsystem, satellite data ingest subsystem, conventional meteorological data ingest subsystem with appropriate data locks, a data server

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subsystem, and the communications network.

BACKGROUND

The current system ingests a large variety of weather information from numerous geostationary satellites, such as GOES, GMS, METEOSAT, polar orbiting satellites, conventional world-wide ground and upper air observations, as well as very specific local data sources such as electrical charge potential, and information from weather towers. The current system is based on an IBM mainframe architecture that is no longer manufactured and which may not be supported in the next five years. The current system also incorporates proprietary video hardware which is no longer available.

The replacement systems would be principally installed at the Eastern Range (Cape Canaveral), and the Johnson Space Center with additional alternate facilities installed at the Marshall Space Flight Center, and Vandenberg AFB.

NASA and the Air Force have conducted a Phase A study to determine the feasibility of replacing the current weather forecast assessment system used for Space Shuttle, DoD, and commercial expendable launch vehicles. The Phase A effort was primarily conducted at the Marshall Space Flight Center. The Phase A study recommendation is to replace the current system with a workstation-based distributed computing environment.

As of August 3, 1994, the Program Office has not given any indication that this program will come to fruition. There is no information on funding for this program. The program has not yet been approved.

There is no information on this program in the FY95 A-11 Section 43B budget submission to OMB.

POTENTIAL BIDDERS:

DEC
 Raytheon
 E-Systems
 SAIC
 Harris
 PRC
 CTA
 Loral Federal Systems Company
 Unisys
 EDS
 CSC
 Data General
 TRW
 Nyma
 Martin Marietta

+GTE
 +JUN

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PROGRAM : IRD TASK ORDER AGREEMENT **UPDATE** : 09/12/94
DEPT : AIR FORCE **AGENCY** : ROME LABORATORY/PK
STATUS : Proposals under evaluation. Award now anticipated late 9/94.
ESTIMATED VALUE (\$000'S) : 20000 **PHASE** : 3 - Proposals submitted

DURATION/TYPE :
 Three years. Cost plus fixed fee task order agreement.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : / /	RFP : F3060294R0007	Laboratory Program
N	DPA : / /	DPA :	Manager
Y	RFP : 03/17/94	APR IN DATABASE: NO	Capt. Wesley Dotts
N	PROPS : 04/18/94	CONTRACT1 :	315-330-7367
N	AWARD 09/26/94	CONTRACT2 :	Mike Wessing x7367

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 0	Rome Laboratory
1995 : 0	1991 : 0	26 Electronic Parkway
1996 : 0	1992 : 0	Giffiss AFB, NY 13441-4514
1997 : 0	1993 : 0	Janis Norelli 315-330-4752
1998 : 0	1994 : 0	Jack Wittman 330-7106

DESCRIPTION

The Air Force's Intelligence Reconnaissance Division (IRD) requires a contractor to provide technical support for accomplishing intelligence data handling, reconnaissance exploitation, electronic warfare, mapping and charting, and special intelligence devices.

SERVICE

The successful bidder will be required to respond to specific technical tasking in support of the IRD. Since the tasks require quick response and performance in Rome Laboratory facilities, it is necessary that the bidder also establish an office in Rome, NY area. Tasks under this contract may be classified and will require access to, and/or generation of classified information. The contractor will be required to perform tasks such as: analytical studies, feasibility analysis, system design studies, system trade-off studies, prototype design efforts, software specification efforts, software development efforts, system simulation, test and evaluation analysis, system developments and hardware component development efforts as required under specifically identified/required areas.

BACKGROUND

There are ten different companies currently providing task order agreement responsibilities under a different

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contract.

This effort requires the use or delivery of Federal Information Processing (FIP) resources, but it has been determined that FIRMR Part 201-39.101-3 applies, which means it has an exception that the FIRMR does not apply to the procurement of FIP resources because it involves intelligence activities. SIC code 8731 applies.

The RFP was released on March 17, 1994, and the proposals are due April 18, 1994 at 3:00PM local time. Amendment 1 was issued March 30, 1994, and had only minor changes.

This is an indefinite quantity contract. The maximum dollar amount the Government may order under this contract is \$20 million, and the minimum amount is \$400 thousand. There is no funding information in the FY95 A-11 Section 43B budget submission to OMB.

Per contracting office on September 12, 1994, the proposals are still being evaluated, and the contract award is now anticipated around the late September 1994 timeframe.

POTENTIAL BIDDERS:

CSC

Frontier Engineering Inc.

Horizons Technology Inc.

Lockheed

Logicon

Loral

PRC

SAIC

TRW

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PROGRAM : OCEAN COLOR SUPPORT SERVICES **UPDATE** : 08/29/94
DEPT : NASA **AGENCY** : GSFC
STATUS : The proposal due date was extended from 9/8 to 9/22.

ESTIMATED VALUE (\$000'S) : 13650 **PHASE** : 2 - RFP released

DURATION/TYPE :

One year base with one four-year option. Cost plus fixed fee.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : //	RFP : RFP590183/266	NASA/GSFC
Y	DPA : 05/17/94	DPA : 94-0312	Chairman, SEB
Y	RFP : 07/25/94	APR IN DATABASE: NO	Dr. Chuck McClain
N	PROPS : 09/22/94	CONTRACT1 : NAS530777	
N	AWARD : //	CONTRACT2 : NAS531733	

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 276	NASA/GSFC
1995 : 0	1991 : 568	Code 289
1996 : 0	1992 : 1,571	Greenbelt, MD 20771
1997 : 0	1993 : 1,499	Dorenda King
1998 : 0	1994 : 411	301-286-9435

DESCRIPTION

Goddard Space Flight Center (GSFC) is recompeting the contract for providing support services to the Earth Sciences Directorate's Ocean Color Program (OCP). The OCP supports the SeaWiFS Project Office (Code 970.2); the Oceans and Ice Branch (Code 971); and the Earth Science Data Operation Facility (Code 902.3).

There is a mandatory small disadvantaged business subcontracting goal of 30%.

The SIC Code for this acquisition is 7371. The small business size standard is \$18 million.

SERVICE

The contractor will provide the OCP support in the areas of mission analysis and design; spacecraft sensor design and calibration; mission operations; real-time data capture; information management; computer systems engineering; satellite data derived product algorithm development; field data collection and processing; scientific data analysis; and image processing software development and numerical modeling.

The support will be provided in the following areas: 1) Theoretical and observational oceanography, meteorology,

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and radiative transfer; 2) Remote sensing technology applications; 3) Computer system engineering and management; 4) Real-time satellite and in situ data acquisition technology; 5) Optical sensor design, calibration, and characterization; 6) Mission operations; 7) Data and software management; and 8) Data format protocols.

BACKGROUND

The incumbent contractor is General Sciences Corp., which was acquired by SAIC. There are two GSC contracts that are being consolidated for this effort.

The level of effort for this five-year contract is 39 persons per year, plus or minus 15%. The value of the contract listed in this report is based on the level of effort multiplied by a \$35 per hour labor rate, at 2,000 hours per year.

There is no information in the FY95 A-11 Section 43B budget submission to OMB.

The SeaWiFS Project uses Interactive Data Language Node Locked Software from Research Systems Inc. to develop SeaDAS (Sea Data Acquisition Software). SeaDAS processes the SeaWiFS ocean color data. Research Systems Inc. provides this software on a sole-source basis.

The preproposal conference took place on August 17, 1994, 9:30 am to 12 noon, at the NASA GSFC Building 3 Auditorium. Government personnel discussed the requirements and answered questions regarding the solicitation.

Amendment One was issued with the RFP. It set the preproposal conference date and made two changes to the subcontracting plan. Amendment Two was issued on August 1. It revised the SIC Code size standard to \$14.5 million from \$7 million. Amendment Three, issued August 25, extended the proposal due date to September 22 and answered more vendor questions.

POTENTIAL BIDDERS:

Hughes STX

SAIC (General Sciences Corp.)

Loral AeroSys

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PROGRAM : OMAHA TEST AND IMAGE DATABASE**UPDATE** : 09/07/94**DEPT** : ARMY ENGINEERS**AGENCY** : CORPS OF ENGINEERS**STATUS** : The proposals were received on 8/30/94.**ESTIMATED VALUE (\$000'S)** : 2500**PHASE** : 3 - Proposals submitted**DURATION/TYPE** :

One base year with four option years. Indefinite Delivery Indefinite Quantity.

LIB DATES**REFERENCE NUMBERS****PROGRAM OFFICE**N **DRAFT** : / /**RFP** : DACW4594R0048

U.S. Army Corps of Eng.

N **DPA** : / /**DPA** :

Omaha District

N **RFP** : 07/29/94**APR IN DATABASE**: NO

CEMRO-OC

N **PROPS** : 08/30/94**CONTRACT1** :

215 N. 17th St.

N **AWARD** : / /**CONTRACT2** :

Omaha, Nebraska 68102-497

BUDGETS (000's)**SPENDING (000's)****CONTRACT OFFICE**

1994 : 0

1990 : 0

U.S. Army Corps of Eng.

1995 : 0

1991 : 0

Omaha District

1996 : 0

1992 : 0

215 N. 17th St.

1997 : 0

1993 : 0

Omaha, Nebraska 68102-4978

1998 : 0

1994 : 0

Jan Cook 402-221-4118

DESCRIPTION

The U.S. Army Corps of Engineers (Corps) is seeking a contractor to develop, implement and maintain a full text and image searchable document entry and retrieval system. This is a fully competitive procurement; however, small and disadvantaged businesses are encouraged to participate and will be used to maximum extent practicable as both prime and subcontractor.

SERVICES

The Corps is soliciting a vendor(s) to provide a computer system (hardware and software) with compatible supplies, services and maintenance to for legal case support, to develop full text and image searchable document entry and retrieval system. The requirement includes compatible workstations, with furniture, to search from the storage media containing the searchable databases. All the equipment will reside at the contractor location in Omaha.

Other services include data entry of up to 50,000 pages or more per case of documents of all types, including maps, hand-written notes, photos, old tissue copies, etc., for any type of case involving the legal office of the Omaha District. Forty thousand pages per year is the estimated workload for this effort. The system must be able

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to locate all pages where any term or image occurs in a database and print a copy of the original suitable for use as evidence in a court of law, with virtually no errors. A warranty of all supplies must be furnished for one year, with four option years of maintenance of all supplies. Training and operating assistance and installation of all equipment in Omaha. The solicitation also includes the requirement for portable workstation with operator as an option for remote use.

BACKGROUND

This procurement is not a recompet. Delivery of supplies must begin not later than September 15, 1994. The value of this contract is based on the maximum value estimate of the RFP.

There is no data on this procurement in the FY 95 A-11 Section 43B Budget submission to OMB.

The RFP was released on July 21, 1994. Proposals are due August 19, 1994.

Amendment #1 was released, which extended the proposal due date from August 19, 1994 to August 30, 1994.

Amendment #2 was released, which contained a Statement of Equivalent Federal Wage Rates and the Wage Determination Numbers.

POTENTIAL BIDDERS:

Building Systems Design Inc.

Mitchell Systems Corporation

Model Classrooms

User Technology Associates

Cordant

Intergraph

Xerox

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PROGRAM : ICARDS **UPDATE** : 09/08/94**DEPT** : DEFENSE DEPT **AGENCY** :**STATUS** : The RFP is anticipated for release at the end of September.**ESTIMATED VALUE (\$000'S)** : 750000 **PHASE** : 1 - Pre RFP**DURATION/TYPE** :

Two year base with three one-year options. IDIQ, with commodities on a firm fixed price basis and labor on T&M.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
Y	DRAFT : 05/09/94	RFP :	Electronic Systems Center
N	DPA : / /	DPA :	50 Griffiss Road
N	RFP : 09/26/94	APR IN DATABASE: NO	Hanscom AFB, MA 01731
N	PROPS : 10/26/94	CONTRACT1 : F1962890D0018	Linda Jean
N	AWARD : 03/31/95	CONTRACT2 :	617-271-2461

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 1,353	ESC/ICK
1995 : 0	1991 : 75,910	50 Griffiss Road
1996 : 0	1992 : 100,574	Hanscom AFB, MA 01731-1619
1997 : 0	1993 : 30,899	
1998 : 0	1994 : 0	Diane Cyr 617-271-8251

DESCRIPTION

The Electronic Systems Center at Hanscom AFB will acquire an IDIQ contract for Intelligence Community Analysis Requirements and Design Support (ICARDS). ICARDS will provide enhancements and support to automated military and civilian intelligence centers worldwide. ESC has stated that this contract's value will be in excess of \$750 million.

This is a small business set-aside. The SIC Code is 3571 and the threshold for number of employees is 1,000.

There may be multiple awards.

** → Most Contractors will have to subcontract*

SERVICE

Services will include:

Requirements analysis;

Hardware and software acquisition, which includes workstations, servers, bridges, gateways, routers, video devices, and imagery equipment, office automation, map graphics, database management, imagery, operating systems, communications, expert systems, intelligent systems, and security;

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Integration, which includes ensuring compatibility of products with the POSIX open systems environment, Tempest requirements, and compatibility with existing software;
 Installation worldwide;
 Support worldwide;
 Compliance with security guidelines; and
 Ability to provide services in the intelligence environment.

BACKGROUND

On December 17, 1993, an Acquisition Strategy Panel meeting was held, at which time the ICARDS project group was assigned some action items to complete before the draft RFP can be released. The Acquisition Strategy Panel reconvened on February 4, 1994. The CBD synopsis of January 10, 1994 rescinded the market survey of November 18, 1993. This will have the effect of eliminating any sole-source requirements and basing the evaluation on performance specifications. There was another Acquisition Strategy Panel meeting on March 7, 1994.

The final RFP will be synopsisized in the CBD prior to its release.

The incumbent contractor for this procurement is Infotec Development Inc. Their contract is known as NETCAP. Infotec was an 8(a) firm at the time of the award.

There is no funding information in the FY95 A-11 Section 43B budget submission to OMB.

No DPA is required. This procurement is Warner-exempt from the Brooks Act.

The ICARDS final RFP will be made available on the HERBBS, at 617-274-0500.

ESC will send the RFP to those firms it judges to be qualified to do this work. Other firms can request a copy of the solicitation.

The capabilities statements requested by ESC should be 15 pages or less.

POTENTIAL BIDDERS:

Geodynamics/GTE

Infotec Development Inc./PRC/Sysorex

+ *Condon*

ISN

Questech

BTG/EDS

Electronic Warfare Associates/SAIC/DEC/I-Net

Sysorex

Systems Research and Applications

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PROGRAM : NRL MIMD SYSTEM **UPDATE** : 09/08/94
DEPT : NAVY **AGENCY** : NRL
STATUS : The proposal due date was extended from 9/12 to 9/19.

ESTIMATED VALUE (\$000'S) : 5000 **PHASE** : 2 - RFP released

DURATION/TYPE :
 120 days delivery and three years for maintenance and upgrade. Fixed Price, supply and services contract.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : / /	RFP : N0001494RET02	Naval Research Laboratory
N	DPA : / /	DPA : Warner-exempt	Information TechnologyDiv
Y	RFP : 07/14/94	APR IN DATABASE: NO	4555 Overlook Avenue, S.W
N	PROPS : 09/19/94	CONTRACT1 :	Washington, D.C. 20735
N	AWARD : / /	CONTRACT2 :	Dr.Henry Dardy 2027672541

BUDGETS (000's)		SPENDING (000's)		CONTRACT OFFICE
1994 :	0	1990 :	0	Naval Research Laboratory
1995 :	0	1991 :	0	Code 3240.ET
1996 :	0	1992 :	0	4555 Overlook Avenue, S.W.
1997 :	0	1993 :	0	Washington, D.C. 20735-5326
1998 :	0	1994 :	0	Evelyn Taylor 202-7672983

DESCRIPTION

The Naval Research Laboratory (NRL) has a requirement for a Multiple Instruction Multiple Data (MIMD) system. The system is needed for continued innovative exploration, evaluation and use of massively parallel processor (MPP) technology used in solving significant military problems relating to the physical computation and information sciences. The procurement is unrestricted. The SIC code for this acquisition is 3571.

SERVICE

The requirement is for delivery of a system with the following minimum features: (a) 10-12 GigaFlops peak performance; (b) 2-4 GigaBytes main memory; (c) 20 GigaBytes of secondary storage in the form of scalable RAID technology, and (d) appropriate external communications bandwidth to interconnect optimally to other NRL systems. The current software environment is based on CM Fortran, C* and CM AVS. Anticipated delivery is 120 days.

Vendors shall be responsible for equipment installation, installation of the system software, and for hardware and

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software maintenance. The estimated period of performance for maintenance and potential upgrade is three (3) years.

BACKGROUND

The MIMD system will complement the NRL Thinking Machines Corporation CM-5E platform. This company is not considered to be an incumbent. The MIMD system is a new requirement. Since the requirement is primarily for delivery of a system, this is not considered to be a services contract. The current NRL effort is viewed as a rapid prototyping environment that integrates leading edge high performance computing capabilities.

Department of Defense MPP applications areas include, but are not limited to, weather forecasting for Fleet Operations; image and signal processing; remote sensing; real time orbital tracking of space debris, and molecular dynamics.

The estimated value of this requirement is based on costs of supercomputers or massively parallel processing systems purchased by other agencies for similar high-level research activities.

NRL cancelled their Agency Procurement Request for a Delegation of Procurement Authority and received a Warner exemption for this procurement. This explains the statement in the synopsis that funds are not presently available.

The RFP was released on July 14 with a closing date of August 17. Written questions were due by July 25. The Pre-Proposal Conference took place on August 2 at the Naval Research Laboratory.

Amendment 0001, effective August 12, extended the proposal due date to September 12. Amendment 0002, effective August 19, provided additional information including questions and answers on this solicitation. Information from the pre-proposal conference, including the attendees list, was also provided. Amendment 0003, effective September 7, provided answers to questions, changes to the solicitation and extended the proposal due date to September 19.

POTENTIAL BIDDERS:

Convex Computer
Cray Computer Corp.
Digital Equipment Corp.
IBM
Intel/Unisys
Jordan Systems Inc.
Kendall Square Research

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Meiko Scientific Corp.
 Netstar
 N Cube
 SFA, Inc.
 Silicon Graphics
 TMC

POTENTIAL BIDDERS:

PROGRAM OFFICE	REFERENCE NUMBERS	AWARD	PROPS	CONTRACTS	CONTRACTS	APR IN DATABASE	DPA	REP	BUDGETS (000's)	STANDING (000's)	CONTRACT OFFICE
	REP : FAIRMAR012	Y	Y	Y	Y	NO	Non-TP	Y	0	0	HSC/KVCB
	DPA : Non-TP	Y	Y	Y	Y			Y	0	0	8003 9th Street
	APR IN DATABASE: NO	Y	Y	Y	Y			Y	0	0	Brooks AFB, TX 78232-2333
	CONTRACTS:	Y	Y	Y	Y			Y	0	0	Helen West 210-236-4216
	CONTRACTS:	Y	Y	Y	Y			Y	0	0	C.S. Dan House 236-4486

DESCRIPTION

The Air Force Center for Environmental Excellence (AFCEE) is acquiring General Systems Engineering and Integration (GSE&I) Services. AFCEE will respondize before releasing the RFP.

SERVICE

Services include long range requirements analyses, strategic planning support, and providing expert advise in all elements of environmental management. Expertise in the field of engineering, biology, chemistry, and risk assessment is required.

BACKGROUND

The contractor on this contract will be precluded from other DoD contracts involving environmental services or supplies. This contract is being created by blending some tasks from existing contracts with new requirements. No DPA is required. There is no funding information in the FY95 A-11 Section 43B budget submission to OMB.

A CBD synopsis was published on February 14, 1994. Due to the nature of the services to be provided, the contractor must be able to comply with the Organizational Conflict of Interest constraints that will be included in

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PROGRAM : GSE&I SERVICES FOR AFCEE UPDATE : 07/06/94

DEPT : AIR FORCE AGENCY : AFCEE

STATUS : There are still no milestones for this procurement yet.

ESTIMATED VALUE (\$000'S) : 0 PHASE : 1 - Pre RFP

DURATION/TYPE :

Five years. Time and Materials, Indefinite Delivery/Indefinite Quantity contract.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : //	RFP : F4162493R8022	
N	DPA : //	DPA : Non-FIP	
N	RFP : //	APR IN DATABASE: NO	
N	PROPS : //	CONTRACT1 :	
N	AWARD : //	CONTRACT2 :	

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 0	HSC/PKVCB
1995 : 0	1991 : 0	8005 9th Street
1996 : 0	1992 : 0	Brooks AFB, TX 78235-5353
1997 : 0	1993 : 0	Helen Wiser 210-536-4516
1998 : 0	1994 : 0	C.S. Dan House 536-4486

DESCRIPTION

The Air Force Center for Environmental Excellence (AFCEE) is acquiring General Systems Engineering and Integration (GSE&I) Services. AFCEE will resynopsise before releasing the RFP.

SERVICE

Services include long range requirements analyses, strategic planning support, and providing expert advise in all elements of environmental management. Expertise in the field of engineering, biology, chemistry, and risk assessment is required.

BACKGROUND

The contractor on this contract will be precluded from other DoD contracts involving environmental services or supplies. This contract is being created by blending some tasks from existing contracts with new requirements. No DPA is required. There is no funding information in the FY95 A-11 Section 43B budget submission to OMB.

A CBD synopsis was published on February 14, 1994. Due to the nature of the services to be provided, the contractor must be able to comply with the Organizational Conflict of Interest constraints that will be included in

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the contract. The period of the specific restrictions will include the period of performance of the contract and two years after contract completion. No milestones.

POTENTIAL BIDDERS:

Mitre

PROGRAM OFFICE	REFERENCE NUMBERS	DATES	LIB
PRC	RTF : 82DDE20001	11	N
OTB	DEA :	11	N
CTA Inc.	APRIN DATABASE NO	10/1/94	N
Martin Marietta	CONTRACTI : 80DNE00022	11	N
General Sciences Corp.	CONTRACTS :	00/01/93	N

CONTRACT OFFICE	SPENDING (000's)	BUDGETS (000's)
301-713-0839	0	1,300
C.S. Glenda Butell	8,143	1,300
C.O. Las Metron 301-713-0839	4,803	1,300
Procurement Operations	2,000	1,300
Cometco/NOAA	3,733	2,400

DESCRIPTION

The National Oceanographic and Atmospheric Agency (NOAA) plans to recomplete its contract for maintenance and operations of the Geostationary Operational Environmental Satellite (GOES) Data Distribution System (GDDS). This is a fill and open competition.

SERVICE

Principal components of the GDDS are two facsimile satellite image processing and distribution systems, a remote station data collection system, a satellite image registration and gridding system, two interactive computer processing systems and attached workstations, a computer-based system for shared processing of satellite data from other Federal agencies, high speed communications facilities, an analog image distribution system, high performance workstations, emergency power generators, and satellite ingest computers.

Operations and maintenance support are also required for several NOAA National Weather Service Satellite Field Distribution Facilities. In addition to hardware support for these components, software and telecommunications support will be needed for new satellite applications and systems.

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PROGRAM : GDDS OPERATIONS AND MAINT **UPDATE** : 09/09/94**DEPT** : COMMERCE **AGENCY** : NOAA**STATUS** : The RFP release has slipped to the end of October.**ESTIMATED VALUE (\$000'S)** : 15000 **PHASE** : 1 - Pre RFP**DURATION/TYPE** :

Base period and four one-year options. Cost plus award fee.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : / /	RFP : 52DDNE500001	
N	DPA : / /	DPA :	
N	RFP : 10/31/94	APR IN DATABASE: NO	
N	PROPS : / /	CONTRACT1 : 50DGNE000029	
N	AWARD 06/01/95	CONTRACT2 :	

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 5,400	1990 : 3,735	Commerce/NOAA
1995 : 2,500	1991 : 2,000	Procurement Operations
1996 : 1,500	1992 : 4,867	C.O. Ina Merson 301-713-0839
1997 : 1,500	1993 : 8,143	C.S. Glenda Barfell
1998 : 1,500	1994 : 0	301-713-0839

DESCRIPTION

The National Oceanographic and Atmospheric Agency (NOAA) plans to recompete its contract for maintenance and operations of the Geostationary Operational Environmental Satellite (GOES) Data Distribution System (GDDS). This is a full and open competition.

SERVICE

Principle components of the GDDS are two facsimile satellite image processing and distribution systems, a remote platform data collection system, a satellite image registration and gridding system, two interactive computer processing systems and attached workstations, a computer-based system for shared processing of satellite data from other federal agencies, high speed communications facilities, an analog image distribution system, high performance workstations, emergency power generators, and satellite ingest computers.

Operations and maintenance support are also required for several NOAA National Weather Service Satellite Field Distribution Facilities. In addition to hardware support for these components, software and telecommunications support will be required for new satellite applications and systems.

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BACKGROUND

The incumbent contractor is PRC. The value listed in this report is based on PRC's revenues. The PRC contract was extended on a sole source basis from October 28, 1994 through May 27, 1995. The DPA for the extension is number KMA-94-0361, granted June 27, 1994.

The budget information listed in this report is from the FY95 A-11 43B.

The Contracting Office has received a copy of the Statement of Work. The RFP is being developed and NOAA is going through the pre-approval process so that the RFP can be released in a couple of months.

POTENTIAL BIDDERS:

- PRC
- GTE
- CTA Inc.
- Martin Marietta
- General Sciences Corp.
- Hughes
- SAIC
- SM Systems & Research Corp.
- TRW

Year	BUDGETS (000's)	SPENDING (000's)
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0

DESCRIPTION

The Federal Aviation Administration (FAA) is reorganizing their Technical Support Services Contract (TSSC). The TSSC supports the FAA's nine regions and the Astronautical and Technical Centers (ARTC) in the construction/modification of facilities and installation of the National Airspace System Plan.

SERVICE

Support services include site preparation, environmental remediation, equipment installation and test, hardware test, and equipment modification. Work under the TSSC is issued to the contractor via a work release which may cover any portion of the "hands-on" effort necessary to complete a particular project. Work release requests are issued and managed by headquarters for work which is national in scope or in the more common form, issued and managed by and for individual regions.

Approximately 70% of the estimated cost will be consumed by Davis-Bacon non-FPB type construction work. This includes the selection, planning, and preparation of sites or buildings for equipment installation. Therefore, the FAA estimates that more than 30% of the funds is sufficient for installation and test services to be expended for NAS modernization equipments and systems. Of the NAS equipments and systems to be installed, approximately

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PROGRAM : TSSC II **UPDATE** : 09/07/94
DEPT : TRANSPORT **AGENCY** : FAA
STATUS : Proposals are under review.

ESTIMATED VALUE (\$000'S) : 400000 **PHASE** : 3 - Proposals submitted

DURATION/TYPE :
 Three year base with two two-year options. Cost plus fixed fee, level of effort.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : 08/15/93	RFP : DTFA0194R00004	FAA ANS-110
Y	DPA : 11/04/93	DPA : 94-0024	Washington, DC 20591
Y	RFP : 03/07/94	APR IN DATABASE: YES	Gil Mauck
N	PROPS : 08/04/94	CONTRACT1 : DTFA0188C00039	202-267-3023
N	AWARD : / /	CONTRACT2 :	

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 70,470	FAA
1995 : 0	1991 : 93,219	800 Independence Ave. SW
1996 : 0	1992 : 12,185	Washington, DC 20591
1997 : 0	1993 : 56,851	Libby Strugatch
1998 : 0	1994 : 0	202-267-3643

DESCRIPTION

The Federal Aviation Administration (FAA) is recompeting their Technical Support Services Contract (TSSC). The TSSC supports the FAA's nine regions and the Aeronautical and Technical Centers for construction/modification of facilities and installation of the National Airspace System Plan.

SERVICE

Support services include site preparation, environmental remediation, equipment installation and test, hands-on testing, and equipment modifications. Work under the TSSC is issued to the contractor via a work release which may cover any portion of the "hands-on" effort necessary to complete a particular project. Work releases are issued and managed by headquarters for work which is national in scope or in the more common form, issued and managed by and for individual regions.

Approximately 70% of the estimated cost will be consumed by Davis-Bacon non-FIP type construction work. This includes the selection, planning, and preparation of sites or buildings for equipment installations. Therefore, the FAA estimates that not more than 30% of the funds is sufficient for installation and test services to be expended for NAS modernization equipments and systems. Of the NAS equipments and systems to be installed, approximately

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53% of the total is considered FIP equipment and systems, as defined in the FIRMR.

BACKGROUND

Volume I (Offer and Other Documents) and Volume IV (Business Management) of offerors' proposals were due on May 18, 1994. Volume II (Technical/Program Management) and Volume III (Cost) were due May 25, 1994.

A facsimile message, dated May 11, extended the proposal due dates indefinitely. It said the exact revised proposal due date is not available at this time, but the government will allow offerors a minimum of four weeks from the date of the amendment which establishes the revised proposal due date to submit proposals. This information was re-stated in Amendment 2, released May 12. Amendment 2 also provided questions and answers from the pre-proposal conference on April 20.

Amendment 3, dated May 26, stated that wage determinations will be provided to all offerors in an amendment to be issued in early July. The proposal due date will be established in that amendment.

Amendment 4, dated July 7, incorporated the Department of Labor wage determinations, and established the proposal due date as August 4.

The base period of the contract will have a total of 2,704,584 staff-hours. The first option period will have a total of 3,207,674 staff-hours. The second option period will have a total of 2,965,336 staff-hours. This is a grand total of 8,877,594 staff-hours. The value listed in this report is an estimate based on the staff-hours.

There is no information in the FY95 A-11 Section 43B budget submission to OMB.

The incumbent contractor is Raytheon Service Company. Their contract was due to expire August 15, 1993, but has been extended.

POTENTIAL BIDDERS:

Dyncorp

Hughes

Lockheed

Martin Marietta

Raytheon

TRW

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PROGRAM : IMASS UPDATE : 08/31/94
 DEPT : ARMY AGENCY :
 STATUS : The RFP will be released in mid 9/94. Award on 1/30/95.
 ESTIMATED VALUE (\$000'S) : 10000 PHASE : 1 - Pre RFP

DURATION/TYPE :

One base year with four option years. Firm Fixed Price.

LIB	DATES	REFERENCE NUMBERS	PROGRAM OFFICE
N	DRAFT : / /	RFP :	US Army
Y	DPA : 05/26/94	DPA : DC4-94-0018	Environmental Center
N	RFP : 09/15/94	APR IN DATABASE: NO	Dir. Environmental Progs.
N	PROPS : 10/14/94	CONTRACT1 : DAAD0589C4259	Information Mgmt. Branch
N	AWARD 01/30/95	CONTRACT2 :	Mark Bovelski 4106711650

BUDGETS (000's)	SPENDING (000's)	CONTRACT OFFICE
1994 : 0	1990 : 1,380	US Army Dir. of Contracting
1995 : 0	1991 : 1,471	Aberdeen Proving Ground
1996 : 0	1992 : 1,689	STEAP-PR-CA Bldg 314
1997 : 0	1993 : 1,798	Aberdeen Prov. Ground, MD 21005
1998 : 0	1994 : 1,796	Martha Mitchem 4102787412

DESCRIPTION

The US Army Environmental Center (USAEC) has been designated as a Field Operating Agency of the Department of the Army Staff reporting to the Army's Director of Environmental Programs within the Assistant Chief of Staff for Installation Management. The USAEC requires a contractor to provide ADP support services for its Army-wide automated database for environmental management.

This is an openly competed procurement. The SIC code for this solicitation is 7379.

SERVICES

The US Army is soliciting a contractor to provide program management; data base design, development and administration; data management and reporting; graphic representation of spatial data; documentation preparation; applications training; and Federal Information Processing systems research and evaluation for modernization of the Installation Restoration Data Management Information System (IRDMIS). Services also include computer programming, systems analysis and support services for the operation and maintenance of the IRDMIS. A working knowledge of the Oracle 7 Relational Database Management System; Structured Query Language (SQL) Programming Languages including Ada and familiarity with other programming languages such as Fortran, and C;

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Ada programming support Environment such as APEX; UNIX Operating System; System V Release 4; and others. These efforts support USAEC in meeting the environmental program needs for technical information, data management, reporting, and data representation/analysis.

BACKGROUND

USAEC Information Management Branch currently has a contract with Potomac Research, Inc. (PRI) for FIP support services. The contract number is DAAD0589C4259. The contract was awarded January 1, 1989. The expiration of the contract is November 30, 1994.

The value of this procurement is based on the value of the current contract held by PRI.

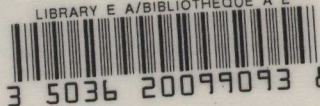
A CBD synopsis appeared in Section D on July 13, 1994.

There is no data on this procurement in the FY 95 A-11 Section 43B Budget submission to OMB.

POTENTIAL BIDDERS:

Potomac Research, Inc.
Systems Research and Applications
CSC
PRC
EDS
SAIC

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