



**Ohio Geographically Referenced
Information Program (OGRIP)
Annual Report
Fiscal Year 1999
July 1, 1998 - June 30, 1999**

**Gene Hinterschied
Forum Chair**

**Stu Davis
Executive Director**

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Ohio Department of Natural Resources

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OGRIP Forum Chair, forum representative

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Ohio Department of Transportation

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Judy Gilligan <i>Coordinator</i>	Ann Bardwell <i>GIS Specialist</i>
Saundra Hughes <i>Secretary</i>	



OGRIP is a two-tiered organization, composed of a council and a forum. It also includes an administrative work group consisting of officers from the Forum and elected at-large members. OGRIP operates under the Department of Administrative Services, Computer Services Division.

Bob Taft, Governor
C. Scott Johnson, Director

FUTURE OF SPATIAL TECHNOLOGY IN OHIO

During the last three years, we have seen an evolution in how state and local governments interact. This relationship is evolving into more of a partnership. As Geographic Information Systems (GIS) and other spatial initiatives continue to increase and expand at both the state and local level, the state must communicate its needs as a single voice, thereby creating opportunities for increased cooperation. Conversely, local government must articulate its needs and expectations in this new partnership. The Ohio Geographically Referenced Information Program (OGRIP) continues to provide a forum for meaningful communication between state and local governments, academia and the private sector.

Because so much of what we do in government is associated with a geographic location, the spatial relationships and the data manipulation provided through spatial technologies continues to elevate GIS into our business processes. When we focus on the business process, we begin to look beyond who "owns" the data and concentrate on the use of data.

This focus is consistent with the concept of electronic government and other far-reaching and farsighted initiatives. The integration of spatial data strengthens the concepts of e-government and e-business by providing a powerful analysis, communication and visualization tool. With the advent of e-government initiatives, the need for a strong digital "infrastructure" (hardware/software, communications, data acquisition, data development and data enhancement) will be necessary. Spatial technologies, such as GIS, provide a means to create a viable foundation for future spatial activities in Ohio.

This partnership and the potential opportunities it creates bodes well for the future of spatial data development and Ohio as a whole. It also is critical for supporting vertical integration of spatial data collection and use. The concept of vertical integration is that all levels of government financially support the capture of spatial data at its lowest, most detailed level allowing for resampling and manipulation of the data for other initiatives at the state and federal government levels. Vertical integration represents an opportunity to more effectively apply tax dollars for the capture of spatial data throughout all levels of government.

There are numerous versions of accessible geospatial data and selecting the right sources is critical to achieving desired results. OGRIP is currently categorizing available spatial data sets and gathering documentation that describes these data sets. Additionally, OGRIP, through the Ohio Department of Administrative Services' GIS Support Center, is working diligently to enhance existing spatial data sets to be more user-friendly and accessible. We are currently researching the feasibility of creating a corporate, maintained and current spatial landbase for the state of Ohio. This landbase would be the single source for statewide vector spatial data that could be merged with other existing spatial data as well as satellite imagery to support a variety of spatial applications.

OGRIP continues to develop a comprehensive spatial data program that will be consistent with the National Spatial Data Infrastructure (NSDI). The NSDI was developed by the Federal Geographic Data Committee (FGDC) to create a common structure for spatial data exchange. Using the NSDI as a framework supports future data sharing and spatial data integration.

OGRIP is optimistic about the future of spatial data development in Ohio. As we prepare for the future, we recognize there is much to do, but much is being accomplished. OGRIP is ready for the challenge.

EXECUTIVE REPORT

On behalf of the Ohio Geographically Referenced Information Program (OGRIP), I am pleased to present the Fiscal Year 1999 Annual Report. Following our goals and meeting objectives as defined in our Strategic Plan, OGRIP's accomplishments during the last year are significant.

As you may know, the mission of OGRIP is to encourage GIS activities that enhance the development and use of reliable digital geospatial data through communication, coordination and cooperation. We continue to accomplish this mission by:

- educating organizations about GIS and other related technologies;
- communicating the benefits of GIS and cooperative efforts;
- raising awareness regarding GIS initiatives in Ohio;
- identifying points of contact in organizations focused on the development and use of geographic data;
- identifying data sources and resources for potential use for organizations;

- instilling the perspective of developing community resources to further the partnerships for geographic data development and GIS programs; and
- continuing to provide direction regarding enabling technologies beneficial to Ohio.

Our vision is to encourage the creation of digital geographic data of value to multiple users and foster the ability to easily determine what geographic data exist, as well as the ability to easily access and use these data. We continue to serve as a focal point for communication and cooperation with federal, state and local governments; academia; and the private sector in Ohio. This concept is further supported with the recent OGRIP Council expansion. The Council consists of 14 representatives as follows:

- Ohio Department of Administrative Services
- Ohio Department of Development
- Ohio Department of Natural Resources
- Ohio Department of Transportation

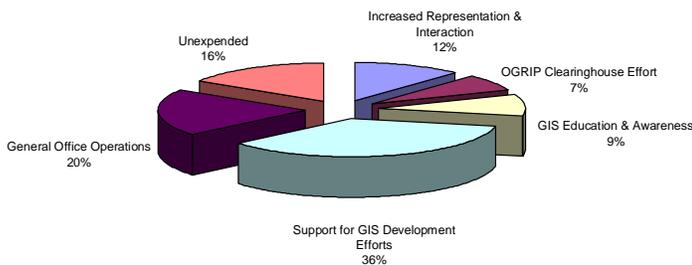
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Stu Davis

"ODNR has leveraged about \$500,000 into \$7,332,000 worth of project deliverables by partnering with OGRIP and other state and federal agencies."

FINANCES



Highlights from 1999

- Completion of National Digital Orthophotography program
- Completion of Metadata Standards pilot project
- Completion of Metadata pilot project
- OGRIP office remodeling project

Total Funding

General Revenue Fund	\$381,109.00	66%
Special Rotary Fund	194,088.00	34%
Total	\$575,197.00	

Total Expenditures

Increased Representation and Interaction	12%
Administrative Support	\$ 56,725.00
Training/Conferences	2,986.88
Printing/Communications	7,277.04
OGRIP Clearinghouse Effort	7%
Administrative Support	24,310.89
Metadata Pilot Project	14,920.00
GIS Education and Awareness	9%
Administrative Support	32,414.52
NGS Advisor Program	14,600.00
Standards Development	7,817.70
Support for GIS Development Efforts	36%
Administrative Support	16,207.26
NDOP	194,088.00
General Office Operations	20%
Administrative Support	32,414.52
Maintenance/Supplies	27,989.11
Data Processing Equipment	18,059.00
General Operating Expenses	35,190.27
Unexpended	16%
Contracts	28,150.30
Registration/Training	3,474.00
Payroll	58,530.40
Miscellaneous	42.11
Total Expenditures	\$575,197.00

OBJECTIVE #1: INCREASED REPRESENTATION AND INTERACTION

To accomplish its goals, OGRIP must continue to actively pursue representation of all sectors of government as well as nonprofit and private organizations in Ohio. It also must continue to increase interaction with entities that have an impact on the GIS community in Ohio. The following initiatives during fiscal year 1999 support the broader representation and increase interaction for OGRIP.

National Digital Orthophoto Program (NDOP) - Two years ago OGRIP took a leadership role in collaborating with four state agencies, entering into a funding agreement with three federal agencies, to produce statewide digital orthophotos for the state of Ohio. Nearly all of the Digital Ortho Quarter Quads (DOQQs) have been received by the OGRIP office and are under review.

DOQQ Enhancement Request for Proposal (RFP) - An RFP for the reprojection and compression of the DOQQs was released. The responses were received and evaluated and a vendor was selected for the project. OGRIP selected GRW Aerial Surveys Inc. to perform this work. The project will begin at the beginning of fiscal year 2000.

Generating Information by Scanning Ohio Maps (GISOM) - This project, which has taken several years to complete, provides a consistent computer based geographic coverage of the state in a U.S. Geological Survey (USGS) defined digital line graph (DLG-3) format. The last of the DLGs have been received from USGS, distributed to GISOM participants and are available at the GIS Support Center.

User Design Standards - A contract was signed for consulting assistance to help define, identify and develop user design standards to support the development and implementation of Geographic Information Systems for local governments. All deliverables have been submitted and approved. A workshop was held to promote these standards. The workshop results and the standards effort have generated a significant amount of interest at the local level.

Executive Order 99-10T - Governor Taft issued an executive order to enable the continued operation of OGRIP. A revised executive order should be issued in fiscal year 2000 for the purpose of expanding the OGRIP Council to include additional state agency and local representation.

Highlights from 1999

- National Digital Orthophotography Program (NDOP)
- DOQQ reprojection and compression
- Generating Information by Scanning Ohio Maps (GISOM)
- User design standards
- Reissue of executive order
- Submitted expanded executive order
- Closer contact with legislature

OBJECTIVE #2: OGRIP CLEARINGHOUSE EFFORT

OGRIP and the GIS Support Center continue to distribute and disseminate information through formal clearinghouse activities via the Internet and on compact disc (CD). Digital geospatial datasets (files containing GIS data in graphic form, along with associated attributes identifying the graphics) and the metadata (textual information describing or cataloging the digital spatial datasets) must be made available at the user sites. These activities serve as foundations for future development and support Ohio as well as national initiatives. The following initiatives support the development of a spatial data clearinghouse.

Metadata Pilot Project - A significant step was taken to address OGRIP's communication efforts by initiating the Metadata pilot project. The scope of this project was to develop a metadata pilot to test the creation, dissemination and searching capabilities of metadata files using real world data. The Ohio Valley Regional Development Commission has submitted final reports, which have been distributed to OGRIP members for review and comment.

Ohio GIS Contacts - OGRIP prepared and published a list of Ohio GIS contacts. This document, available on the OGRIP Web site, lists GIS academic, federal,

state and local government and private utility contacts as well as four categories of GIS vendors. This contact list is updated on a monthly basis on the Web site and published twice a year in paper format.

Data Sources and Contacts Task Force - A data sources and contacts task force was established for the purpose of identifying data sources and associated metadata. This effort is chaired by Dr. Robert Vertrees and is in its preliminary planning stage.

Communications - The OGRIP newsletter has taken on a new look and is an outstanding communicator to keep its members informed about current and future issues and events. The OGRIP Web site also is playing an increasingly important role in communication, and is maintained so as to be informative and current at all times. The address for our site is www.state.oh.us/ogrip.

OGRIP Strategic Plan - A continuing effort is being made to revise OGRIP's strategic plan so our goals and objectives provide the best possible direction for OGRIP's initiatives. The intent of this plan is to instill a strategic view of cooperative initiatives throughout the state. The latest revised plan is complete and accessible on OGRIP's Web site.

Highlights from 1999

- Metadata pilot project
- Ohio GIS contacts
- Data Sources and Contacts Task Force
- Increased communications
- New Web site format
- New newsletter format
- Strategic Plan update
- Ohio GIS contacts booklet
- Vendor Profiles

OBJECTIVE #3: GIS EDUCATION AND AWARENESS

OGRIP continues to educate Ohio on the advantages and benefits of GIS technology. We must raise the awareness of GIS as a tool to support public and private organizations in their related business functions. We continue to do this through the following initiatives.

OGRIP Academy - The OGRIP Academy was established to provide a source of information and education for Ohio counties with no GIS or in the early stages of planning a GIS. Criteria for county involvement was established and more than 20 counties were identified to meet this criteria. Letters were sent to six officials in each of these counties. Several of those responding indicated a strong interest in this effort. OGRIP is currently in the planning stages of offering this educational opportunity during fiscal year 2000.

Ohio GIS Conference - OGRIP actively participated in the planning and presentation of the 9th annual Ohio GIS Conference. There were over 450 GIS professionals in attendance at the conference, an increase of 61% over last year. There was excellent participation in the Best Practices Award Program, sponsored by OGRIP. This program honors the participants' efforts for implementing a GIS that is supportive of OGRIP's objectives and goals. Winners this year included

Gallia County, the city of Cincinnati, Geauga County and Medina County. The GIS projects were exemplary in nature and deserve recognition for their outstanding efforts. OGRIP also held a poster session in which there were 18 entries. The winning posters were submitted by the Ohio Department of Natural Resources, Delaware County Auditor's Office and Clermont County Planning Department.

Organizational Membership - OGRIP's ongoing participation in the National States Geographic Information Council (NSGIC) provides for Ohio's voice in a forum in which the states can address the federal government on matters concerning geospatial policy. The executive director of OGRIP also serves as co-chair of the NSGIC Communications Committee. In addition, OGRIP actively participates in the Urban and Regional Information Systems Association (URISA). This organization provides valuable resources to OGRIP regarding GIS awareness.

Conference Presentations - OGRIP and the GIS Support Center are often asked to be presenters on GIS education at various conferences in the region. This gives OGRIP an opportunity to share its vision and direction regarding GIS.

Highlights from 1999

- OGRIP Academy
- Ohio GIS Conference
- National States Geographic Information Council (NSGIC)
- Urban and Regional Information Systems Association (URISA)
- Intergovernmental Technology Conference (ITC)
- Ohio URISA
- Conference presentations
- ArcView classes
- ArcINFO classes

OBJECTIVE #4: SUPPORT FOR GIS DEVELOPMENT EFFORTS

To support cooperative GIS development, OGRIP must continue to identify external grants and other funding mechanisms to support GIS implementation. This includes defining procedures for geospatial data development in consistent and readily accessible formats. OGRIP continues to provide assistance to local governments and state agencies in the areas of research and assistance in support of various proposed GIS development efforts. The following initiatives address the support that OGRIP provides to the state of Ohio.

Wayne County Assistance - OGRIP responded to Wayne County's request to assist the Wayne County GIS Council in determining the proper direction for their GIS initiative regarding ground control and the possible use of orthophotography. Guidance was provided through written observations and suggestions submitted to the Wayne County GIS Council.

Clark County Assistance - The Clark County Planning Commission asked OGRIP to participate in meetings between the city of Springfield and Clark County. OGRIP participated in two meetings involving city and county officials regarding GIS issues and a subsequent meeting that was designed to bring out

issues supportive of the Clark County Board of Elections use of GIS technology.

Ohio Department of Human Services - OGRIP assisted the Ohio Department of Human Services in a GIS start-up plan. The GIS Support Center provides ongoing support to ODHS with GIS technology.

Central Ohio GIS Committee - The OGRIP executive director chaired a standards subcommittee of the Central Ohio GIS Committee and co-authored a white paper outlining a plan of action that would facilitate bidirectional data sharing.

RFP Review Assistance - OGRIP, in continued support of local governments and state agencies has reviewed and provided insight on draft Request For Proposals (RFP). Examples of this type of activity would be Lake and Richland counties, the city of Findley and the state of Ohio's Real Estate Inventory Program (REIP).

National Hydrologic Dataset (NHD) - OGRIP participated in a workshop regarding the National Hydrologic Dataset (NHD), a possible state/federal partnership in Ohio. Participation with several federal and state agencies is being discussed to support the development of this dataset at the 1:24,000 scale.

Highlights from 1999

- Wayne County assistance
- Clark County assistance
- Ohio Department of Human Services (ODHS) assistance
- Central Ohio GIS Committee
- Request For Proposal (RFP) assistance
- Ohio House of Representatives research
- National Hydrologic Dataset (NHD) development participation

OGRIP HONORS FOUR GIS PROGRAMS

In support of its mission, objectives and goals, OGRIP honored four Geographic Information System (GIS) programs throughout the state of Ohio at the 1999 Ohio GIS Conference. Awards were presented by Gene Hinterschied (left), OGRIP Forum chair, and Stu Davis (right), OGRIP executive director.



Gallia County Geographic Information System (GIS)

Gallia county has demonstrated the enterprise-wide perspective set forth as a goal in the OGRIP strategic plan through the cooperation of multiple county and city organizations in building and maintaining county-wide GIS data. This cooperation between multiple county and city organizations as well as cooperative funding has enabled the creation of a comprehensive data base that is enterprise-wide in scope.

Bob Weaver, Gallia County Engineers Office, accepting on behalf of Gallia County.

Cincinnati Area Geographic Information System (CAGIS)

This association of city and county governments, utility companies and private organizations has taken diverse GIS departments and integrated them into a single enterprise GIS with multiple applications. CAGIS is a consortium that works the way a consortium should work. Funding is provided by participating agencies, and the agency is responsible for maintaining its own data layers. The result is that it serves its members well.

Shaoli Huang, CAGIS GIS project manager, accepting on behalf of CAGIS.



Geauga County "Geaugraphic" Information Service

Geauga county has demonstrated its commitment to promoting a county-wide GIS by having more than 40 participants share GIS data developed primarily through the auditor's office. Funding comes from the county auditor, engineer and county general fund with a commitment to making the data available to the public. They have developed a well-defined organizational structure, which promotes efficiency and eliminates redundancy and repetition.

Lou Marion, Geauga County Auditor's Office, accepting on behalf of Geauga County.



Medina County Public Access System

One of the first county GIS programs in Ohio, Medina County has a history of cooperative development. Employees from county agencies and organizations teamed up to develop the data and applications to serve agencies and the public. The maturity of Medina County's GIS program is exemplified by its multiple uses from a tool to support planning and economic expansion to research studies on urban sprawl.

Lowell Filak, Medina County Engineers Office, accepting on behalf of Medina County.



EXECUTIVE REPORT

Continued from Page 3

- Ohio Environmental Protection Agency
- Academia – Cleveland State University
- Utilities – American Electric Power
- County Auditors Association of Ohio
- County Commissioners Association of Ohio
- County Engineers Association of Ohio
- Ohio Association of Regional Councils
- Municipal League - Two Representatives
(one representative for cities with a population less than 100,000 and one representative for cities with a population greater than 100,000)
- OGRIP Forum Chair

Through OGRIP, we currently leverage existing state and local government resources as well as federal government resources on major spatial data initiatives. Working through OGRIP decreases the amount of redundant activities and concentrates collection efforts one time, for the benefit of many. An example of this is that during the last five years, ODNR has leveraged about \$500,000 into \$7,332,000 worth of project deliverables by partnering with OGRIP and other state and federal agencies. The most recent spatial initiative OGRIP coordinated and managed was the Digital Orthophoto Quarter-Quadrangle (DOQQ). This was a jointly funded state and federal effort that provided 1 meter resolution digital imagery for the entire state. OGRIP coordination was also instrumental in acquiring a U.S. Geological Survey (USGS) liaison for the state of Ohio to be housed in Columbus. We have been advised that this liaison will be in place by spring of 2000.

OGRIP, through the GIS Support Center, can be an additional source of information, education, data dissemination and imagery. OGRIP and the GIS Support Center currently serve as a dissemination point for numerous federal data sets, including the Digital Line Graphs (DLG), Digital Raster Graphics (DRGs), Digital Orthophoto QuarterQuads (DOQQs) and the available 10-meter and 30-meter Digital Elevation Models (DEMs). OGRIP's focus is on enhancing these federal data sets to make them more current, user-friendly and accessible. These data enhancement efforts include researching maintenance procedures in support of future and current statewide spatial initiatives. OGRIP and the GIS Support Center currently serve as a conduit to appropriate statewide geospatial and datasets available from the state as well as federal government.

OGRIP has significant contacts in state and local government and has pursued educational outreach activities such as the OGRIP Academy and our ongoing metadata efforts. We expect Fiscal Year 2000 to be an even better year for OGRIP accomplishments. If you have any suggestions or comments on OGRIP's efforts, please do not hesitate to contact me.

Stu Davis
Executive Director

WEB SITE UPDATE

The OGRIP Web site was evaluated and redesigned during fiscal year 1999. OGRIP is now using the Web site, e-mail and the various Listserves as its primary means of information dissemination. Upcoming educational opportunities, conference information, meeting minutes and agendas and other items are listed on the Web site for quick and easy access.

In addition, OGRIP recently developed a Vendor Profiles section of the Web site. This is an interactive database maintained by the vendors on services provided as well as company information. All edits are done by the individual vendors with OGRIP's approval. This database is searchable via name or services and has proven to be a valuable resource for many government entities.

The Web site also features a Spotlight section with upcoming information and all current report submissions. It also features a direct link to a digital copy of all publications. The Upcoming Meeting Information section includes the current agenda for upcoming meetings as well as any pertinent information for the meeting. It also features a link to the current presenter's Web site so as to provide OGRIP members with information on the topic at hand.

OGRIP 1999 Publication Listing

- Strategic Plan
- 1998 Annual Report
- Ohio GIS Contact Listing
- Y2K Assistance Sheet
- Newsletters - quarterly newsletters
- OGRIP Participant Listing
- Ohio GIS Conference materials
- OGRIP Best Practices Award winner packet
- Enterprise-Wide GIS in Ohio
- Spatial Data Hub paper
- Funding Mechanisms paper



OGRIP

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Ohio Geographically Referenced Information Program

MISSION

The mission of the Ohio Geographically Referenced Information Program (OGRIP) is to encourage GIS activities that enhance the development and use of reliable digital geospatial data through communication, coordination and cooperation. OGRIP accomplishes its mission by educating organizations about OGRIP, GIS and other related technologies; communicating the benefits of GIS and cooperative efforts; raising the awareness regarding GIS initiatives in Ohio; identifying points of contact in organizations focused on the development and usage of geographic data; identifying data sources and resources for potential use by organizations; instilling the perspective of developing community resources to further partnerships for geographic data development and GIS programs; and continuing to provide direction regarding enabling technologies beneficial to Ohio.

VISION

The Ohio Geographically Referenced Information Program shall encourage the creation of digital geographic data of value to multiple users, and shall foster the ability to easily determine what geographic data exist, as well as the ability to easily access and use these data.



For more information on OGRIP including a copy of the most recent Strategic Plan and newsletters, please access our Web site at www.state.oh.us/ogrip