

Investing in Ohio's



OhioLINK
Snapshot 2003

Students and Future

\$\$\$ and Sense



Program's Progress Still Hampered by Ohio Budget

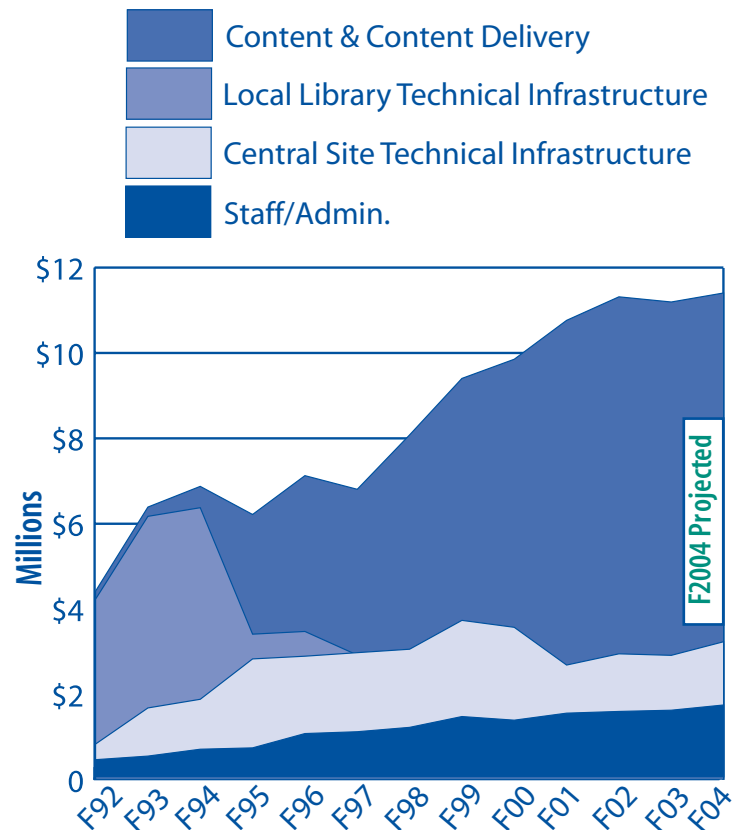
Over the past several years, OhioLINK and library budgets have either been reduced or stagnant. As a result, new initiatives have been curtailed and we are beginning to eliminate funding for currently provided resources.

With Ohio higher education funding under pressure, the combination of healthy library budgets and the OhioLINK budget maximizes statewide purchasing power and information resource availability. **Access to the OhioLINK- and library-provided resources covering the breadth of available research and scholarship is essential to support and create a robust 21st century Ohio economy.**

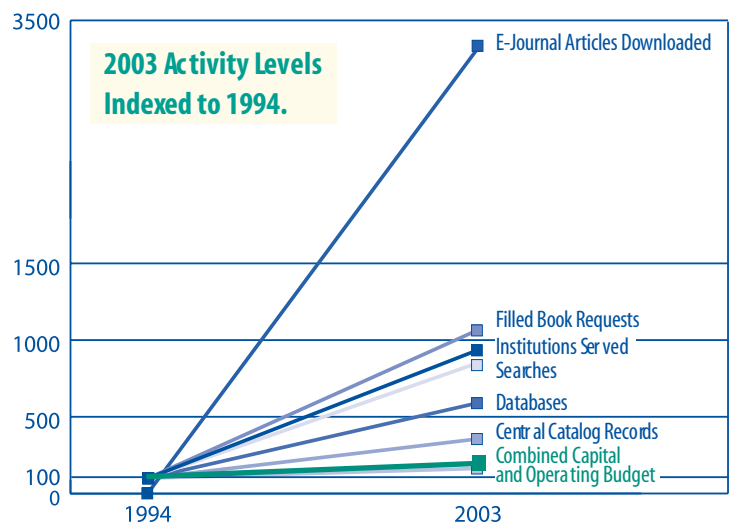
We have been very successful in eliminating or reducing price increases and in delivering a much wider array of resources across the state than traditionally provided by individual institutions. Total annual OhioLINK funding in 2003 was only 84% more than in 1994, while the number of delivered services and libraries served has grown dramatically. But with the fiscal 2004 OhioLINK operating budget 8.4% (\$640,300) below the fiscal 2001 level, the cost for databases has either been transferred to libraries or database access lost. Since library budgets are also being curtailed, we can expect further reductions in 2004 and 2005.

The OhioLINK capital budget is used extensively for the purchase of electronic information and is sufficient through fiscal 2004 to maintain current capital-funded initiatives. In fiscal 2005 and 2006, however, we expect a shortfall in the funds required to maintain current service levels.

Where Do OhioLINK Expenses Go?



Growth in Services Delivered Versus Growth in Budget



But It Also Takes Library Funds

Electronic Journal Center (EJC)

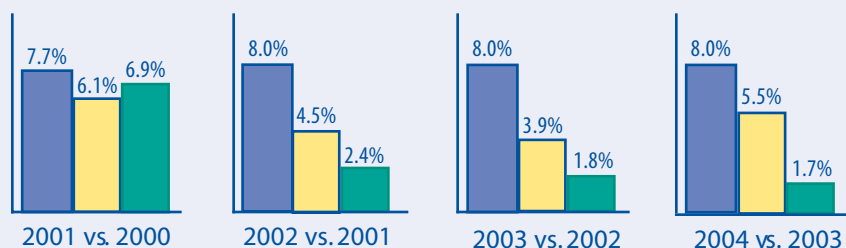
- Total cost for 2004 \$ 23.9 Million
- Cost funded by OhioLINK \$ 4.6 Million
- Cost funded by Libraries \$ 19.3 Million
- Average percent of EJC titles held in print by Ohio universities 25%
- Estimated cost to duplicate in print at universities \$ 95.2 Million

Research Databases / General & Business Journals

- Total cost for F2004 \$ 8.1 Million
- Cost funded by OhioLINK \$ 3.5 Million
- Cost funded by Libraries \$ 4.6 Million
- Average estimated group efficiency over individual purchases 300%
- Estimated cost to duplicate through individual library purchases \$ 24.3 Million

Controlling Costs

- Average Annual Journal Cost Increase for Typical Academic Research Library
- Average Annual Cost Increase for Journals Licensed through OhioLINK
- Average Annual Cost Increase for Research Databases / General & Business Journals Licensed through OhioLINK



In its 11 years of operations, the OhioLINK program has proven that cooperation and statewide licensing of information resources not only reduce the rate of increase in library costs but also extend the buying power of the individual library budget. Large universities can buy more research materials and small institutions gain access to resources formerly beyond their means.

\$\$\$ and Sense

OhioLINK Milestones

Library Catalog

Research Databases

1992

Library Catalog Live
November 1992

2 Research Databases

1993

3 Research Databases

1994

Online Borrowing begins
20 Institutions Joined
5 Million Bib Records

18 Research Databases
1 Million Reference Searches

1995

10 Million Bib Records
14 Institutions Joined
15 Million Bib Records

29 Research Databases
10 Million Reference Searches

1996

12 Institutions Joined
500,000 Online Requests

47 Research Databases

1997

CRL Joined
February 1997
7 Institutions Joined
1,000,000 Online Requests

62 Research Databases
20 Million Reference Searches

1998

4 Institutions Joined
1,500,000 Online Requests

67 Research Databases
30 Million Reference Searches

Elec. Journal Center Live
with 2 Publishers
April 1998

20 Million Bib Records

4 Million Documents Downloaded

Continued on page 4

Service Improvements

More Resources, More Access

OhioLINK's eleventh year illustrated a continuing commitment to improvement with the addition of new resources and services.

The **Digital Video Collection** launched in June 2003. More than 1000 educational videos from the distributor Films for the Humanities and Sciences are now available online for streaming and downloading. The **Borror Laboratory of Bioacoustics Recorded Animal Sounds Collection**, with 3,900+ recordings, and the **Charles E. Frohman Collection** of historical images from the Rutherford B. Hayes Presidential Center also debuted this year.

OhioLINK's e-book collection continued to evolve in 2003 with the addition of the **Electronic Reference Books Collection** of encyclopedias, handbooks, biographical collections, and guides. In addition, **Safari Tech Books Online** became the program's new resource for high-demand IT manuals.

A **new pick up option in the OhioLINK Library Catalog** debuted in July. This option, which is especially beneficial to distance and nontraditional students, allows users to pick up requested materials at any participating OhioLINK library.

The new **quick and simple search**, which is available on the OhioLINK home page, became the most popular multi-database search option, with more than 60,000 searches since its debut in August.

In another program first, underwritten by OhioLINK, **all 84 OhioLINK academic libraries joined BioMed Central** as institutional members, giving significant practical support to the open-access publishing concept. With the well-documented crisis in the ability of academic libraries to keep pace with traditional subscription-based journals, peer-reviewed, open-access journals provide an innovative, new way to expand access at affordable costs.

Library Catalog

Research Databases

1999

20 Institutions Joined
2 Million Online Requests

40 Million

Reference Searches

Digital Media Center Live
with 2 Collections

September 1999

11 EJC Publishers Added

91 Research Databases

9 Million

Documents Downloaded

20002 Institutions Joined

50 Million

Reference Searches

14 EJC Publishers Added1 DMC Collection Added

97 Research Databases

15 Million

Documents Downloaded

200117 EJC Publishers Added5 DMC Collections Added

98 Research Databases

70 Million

Reference Searches

21 Million

Documents Downloaded

2002

4 Million Online Requests

80 Million

Reference Searches

6 EJC Publishers Added4 DMC Collections Added

114 Research Databases

32 Million

Documents Downloaded

2003

135.5 Million

Reference Searches

22 EJC Publishers Added3 DMC Collections Added

128 Research Databases

45 Million

Documents Downloaded



E-Books

Electronic Books See Growing Use

The OhioLINK program is a leader in expanding information access through the emergence of electronic books. Growing use of a diverse, multi-publisher collection of 18,000+ titles already demonstrates the users' strong desire to select and use e-books.

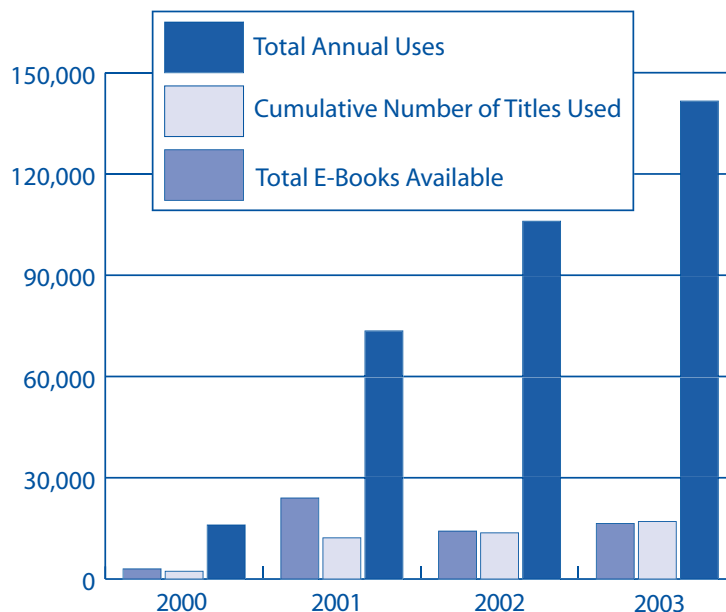
The collection is expanding slowly due to budget constraints. Users are now limited in the number of new books available to them. Plans remain to expand access, if it is affordable, in this highly effective program.

netLibrary Most Used Subject Categories

Per E-Books Available

1. Computers
2. Math and Statistics
3. Chemistry
4. Technology, Engineering and Manufacturing
5. Biology and Life Sciences
6. Medicine

netLibrary E-Book Availability and Usage



Fast Facts: E-Books

	Cumulative	2003
Heaviest Use Per Title	1538	460
Median Use Per Title	10	5
Average Uses Per Title	19.8	9.5

OhioLINK Resources Support Community College Professor's Teaching and Research

Kristi Hall

*Assistant Professor, Computer Science
Southern State Community College*

"OhioLINK has been an integral part of the success in my teaching and my education. I teach computer science and use OhioLINK services quite frequently in my classroom. My students use OhioLINK resources to do online research for reports and papers. We extensively use the Safari Tech Books Online collection.

OhioLINK has been an integral part of the success in my teaching and my education.

I use it to study up on issues for class discussion. We also watch the digital videos in my classes to gain information on various topics. In addition to being able to make the classes I teach much more interesting by using OhioLINK, I have also used many of the services available in my own studies. I am currently working on a graduate degree and OhioLINK has been so beneficial in doing my research that I wouldn't be as successful in my classes without it. I can search and get immediate results for whatever topic I happen to be studying."

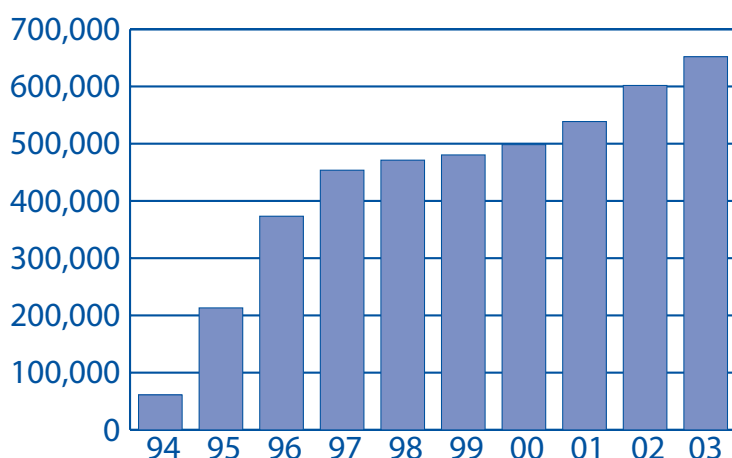
OhioLINK Library Catalog

OhioLINK Library Catalog Continues to Provide Increased Book Collection Utility

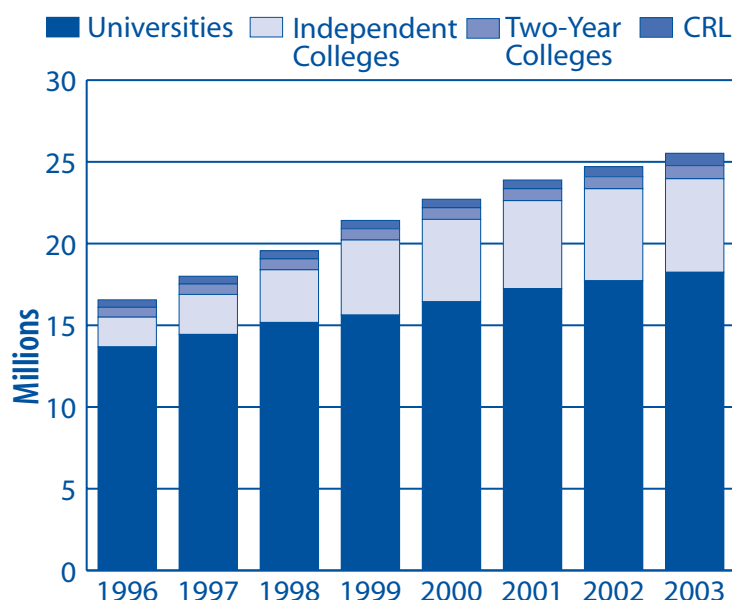
The large and diverse OhioLINK Library Catalog continues to maximize a high level of book utilization. Now, it is also being used to increase access to audio and video materials. This benefit is clearly seen as online borrowing showed strong, continued growth in 2003. Some of this growth in resource sharing may be the result of decreased book buying as library budgets tighten. Collection growth was the slowest in OhioLINK's 11-year history. The value of the OhioLINK Library Catalog is dependent on continued additions of new titles that can be shared across the state.

Undergraduates continue to account for a greater percentage of overall activity. Traditionally, undergraduates rarely used interlibrary loan (ILL). Their use of online borrowing is a special program achievement.

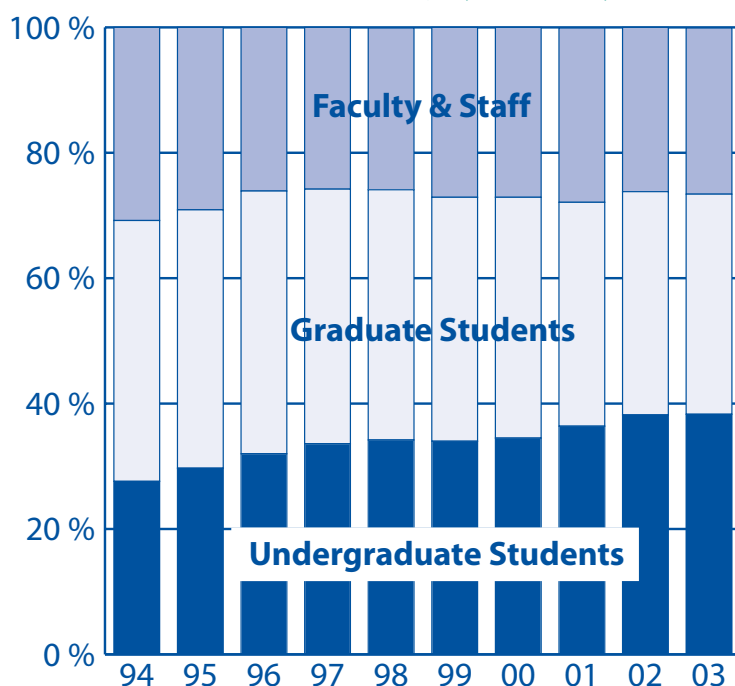
Filled Online Patron Borrowing Requests



Number of Bibliographic Records in the OhioLINK Library Catalog



Online Patron Borrowing by Patron Type

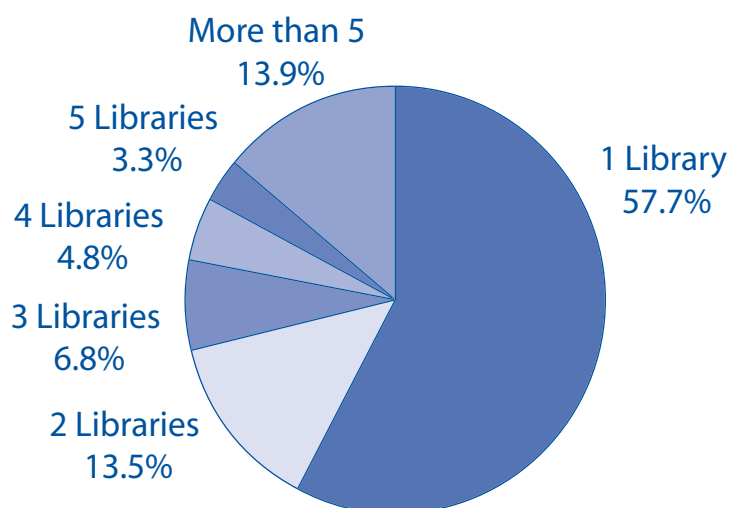


OhioLINK Library Catalog

In 2003, the catalog included Ohio's 17 public/research universities, 23 community and/or technical colleges, the State Library of Ohio, and 42 independent colleges. This statewide collection now includes more than 8.7 million unique records representing 25.8 million library holdings across the state. Access to the OhioLINK Library Catalog allows participating libraries to diversify their collections by purchasing items not already held within the system, instead of purchasing duplicate copies of low-demand items.

OhioLINK libraries continue to evolve improved techniques for cooperative collection development in order to buy the broadest possible set of research and scholarly books with limited and decreasing book acquisition budgets.

Percent of Titles Held by Number of Libraries



Fast Facts: Participating Institutions

1994.....	9	1999.....	74
1995.....	14	2000.....	79
1996.....	33	2001.....	79
1997.....	45	2002.....	83
1998.....	53	2003.....	83

OhioLINK Resources Help Library Staff Assist Users

Erica Botic

Fourth-year student, majoring in interior design
University of Cincinnati

As a peer mentor in the info commons department of the University of Cincinnati Libraries, Erica Botic has spent two years helping her peers with their research questions. A majority of the users Botic helps are undergraduate students who need assistance finding information for research papers.

"I frequently encounter patrons who are frustrated and unable to find the information they need," Botic explained.

By using OhioLINK, patrons are spared the additional hassle of having to look for another source of information.

"OhioLINK is the first place I look for help with this problem."

Botic recommends OhioLINK resources to users because they save patrons both time and frustration. "It's quick and easy to navigate a patron through the OhioLINK Library Catalog. The requesting process and delivery time is quicker than that of an interlibrary loan." In fact, most OhioLINK items are ready for pick up in just 2-3 days.

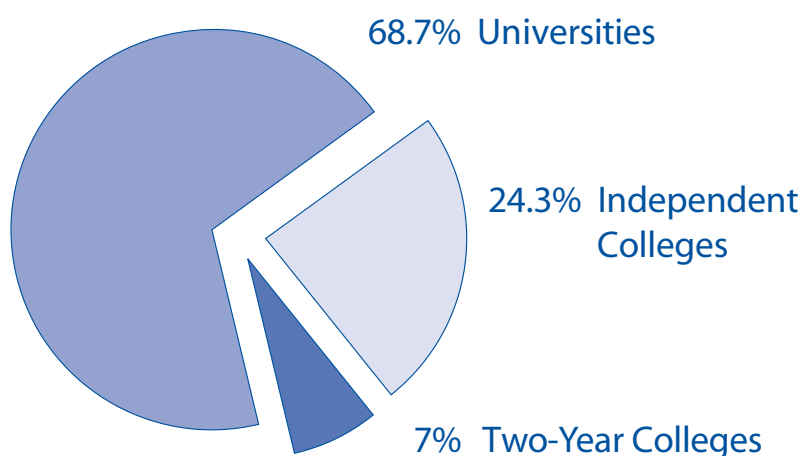
"By using OhioLINK, patrons are spared the additional hassle of having to look for another source of information. Being able to depend on OhioLINK to find information has given me the confidence that I can help a patron with their research as well as encourage the repeated use of our library as a starting point for information."

OhioLINK Library Catalog

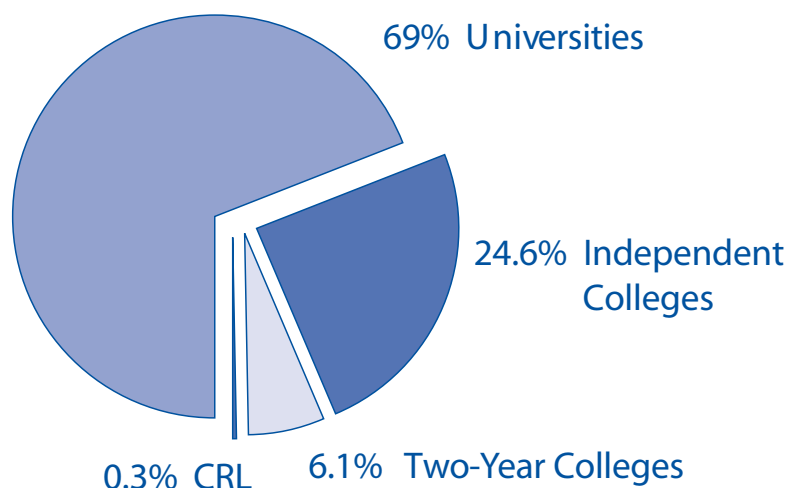
Working toward equal borrowing and lending rates, the OhioLINK program does not “raid” university collections. It works to enrich all its affiliated libraries by enabling quick and easy borrowing and lending between the college and university communities.

Comparison of Online Borrowing Supply and Demand by Institution Type

Requests Made



Requests Received



OhioLINK's Satellite Data Server Expands Research Possibilities

Kevin Czajkowski

Associate Professor, Department of Geography and Planning
University of Toledo

The OhioLINK Landsat 7 Satellite Image Server makes it possible for educators, researchers and every Ohioan to access satellite imagery of Ohio.

“I cannot say enough how critically important it is for us to have the Landsat imagery purchased by OhioLINK,”

I cannot say enough how critically important it is for us to have the Landsat imagery purchased by OhioLINK.

Kevin Czajkowski stated.

“When I first came to UT, the school only had eight Landsat images. There was not much I could do with my students in my classes, or for projects for their theses. Now, we have access to hundreds of images covering Ohio. We have had ten students do their masters degrees using OhioLINK/OhioView data. We even had a student from Southwest Texas State do her Masters on the Cuyahoga River here because there was a lot of Landsat data available.”

The benefit of the Landsat 7 satellite images extends far beyond campuses. The University of Toledo has utilized Landsat 7 data in numerous projects, from working in conjunction with Fulton County to develop a plan for smart growth within the county, to working with the Great Lakes Environmental Research Lab to develop a technique to monitor sediment in the Great Lakes.



Research Databases

Database Access Grows Through Joint Licensing and Federal Grant

Research and reference database searching grows steadily. In spite of stagnant funding, the OhioLINK program has added to its core, statewide collection in 2002 and 2003. In 2002, this was accomplished through an innovative and cost effective joint licensing program with the Ohio Public Library Information Network (OPLIN) and the Information Network For Ohio Schools (INFOhio).

In 2003, again in concert with OPLIN and INFOhio, we received a \$1 million grant for federal LSTA (Library Services and Technology Act) funds. Administered through the State Library of Ohio, we have a five-year commitment to fund a set of databases that are now available to all Ohioans through their school, public or academic library.

A small number of databases have lost statewide access as a consequence of the state budget reductions. This has been offset by the addition of databases to the Digital Media Center.

Nonetheless, Ohio higher education users' need to research topics from anthropology to zoology increased. OhioLINK's authoritative research databases are necessary to support high-quality scholarship and research. These resources, however, are not free. The statewide collection continues to be licensed at discounted prices.

OhioLINK Resources Help Support Economic Development

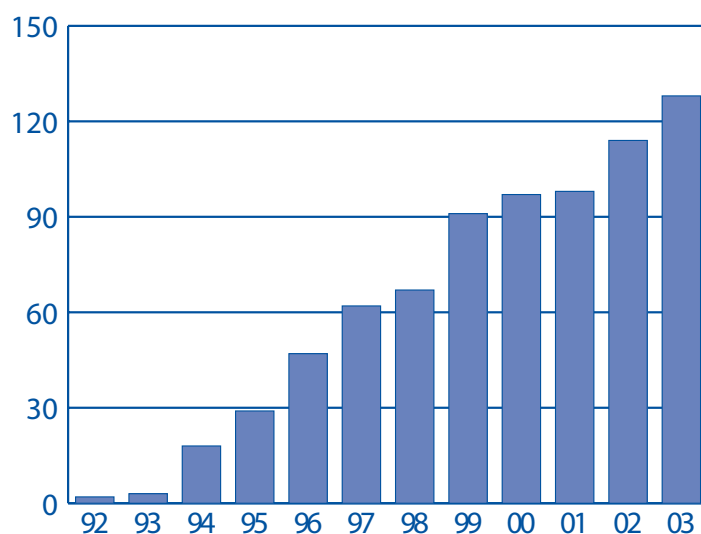
Dr. Henry "Skip" Lewandowski

*Director, Engineering Technologies Division and the Nord Advanced Technologies Center and Distributed Learning
Lorain County Community College*

"I doubt that many people connect OhioLINK with economic development, but in my situation the two are inseparable. A medium-sized area manufacturing company requested assistance from Lorain County Community College to help them plot out the company's future. Although they possessed technology and knowledge that was superior to their competitors, the company was very concerned about foreign competition.

Because of OhioLINK, we were able to quickly research the trends and changes that the company would have to make in order for them to remain competitive. The findings were presented to the company's top management and we are currently working on the required action steps. Without the ability to perform the necessary research quickly, it is quite possible that one hundred good paying jobs would have been lost."

Number of Research Databases



Research Databases

OhioLINK's 2003

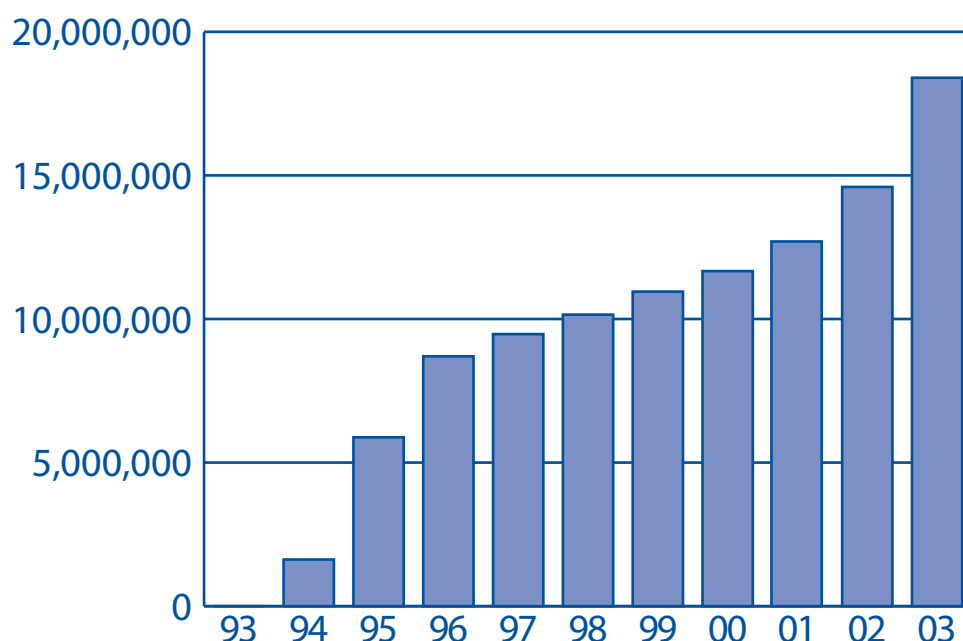
"Top Ten"*

*Based on % of searches on OhioLINK main site. Does not include library catalog statistics.

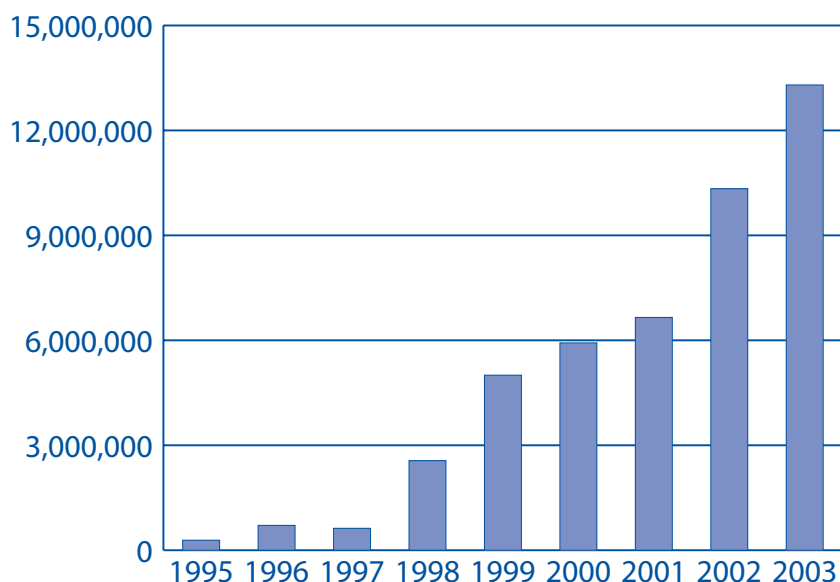
1. Electronic Journal Center -- 21.3%
2. Academic Search Premier -- 16.3%
3. LexisNexis -- 7.2%
4. PsycINFO -- 5.9%
5. MEDLINE -- 4.7%
6. ISI -- 4.6%
7. ERIC -- 3.3%
8. Business Source Premier -- 3.1%
9. WorldCat -- 3.6%
10. Education Abstracts -- 2.3%

Users continue to gain better access while seeing more integration between citations, articles, images, and other data types as new information resources are added. Many of the citation databases use a single interface, simplifying their use. Users can also access multiple databases in their area of interest by a single search and receive online help.

Research Database Searches



Growth In Electronic Images and Full-Text Documents Downloaded



In 1995, the OhioLINK program first delivered full-text general interest articles to users via library print stations. As the presence of the World Wide Web increases and OhioLINK expands full-text resources and desk-top delivery, document downloads continue to grow. With the OhioLINK program's diverse collection of full-text resources, at least 13.3 million documents, of all types, were downloaded in 2003.

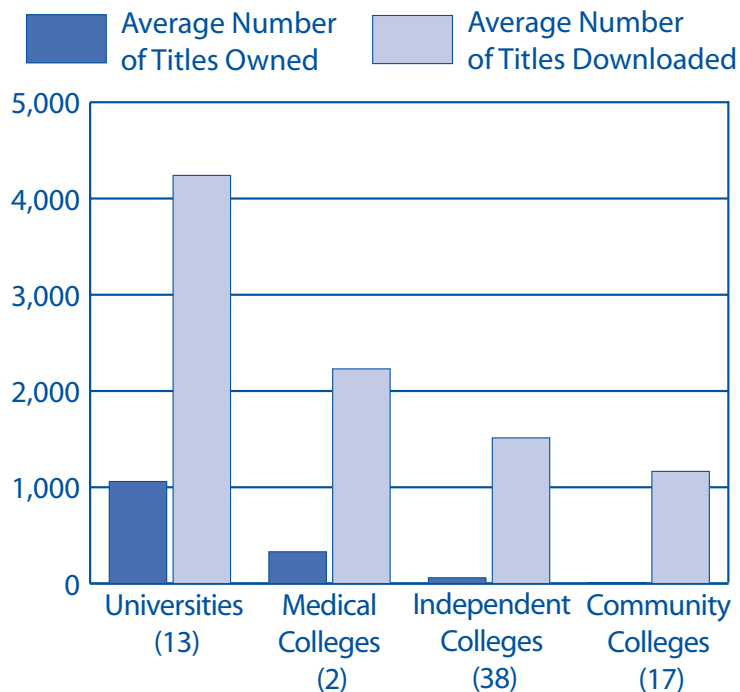
Electronic Journal Center

EJC Shows Unparalleled Success in Expanding Scholarly Journals Use

Six years of expanding access to a growing set of scholarly research journals reflects an insatiable demand for this material. Traditionally, Ohio's major universities hold an average of only 25% of the available scholarly research journals.

Given the opportunity for direct, desktop delivery, university students and faculty will use, on average, over 80% of the available journals, a much wider range than is available on each campus through individual library purchases. From Ohio's largest research university to the smallest community college, all institutions have benefited from cooperative journal purchasing.

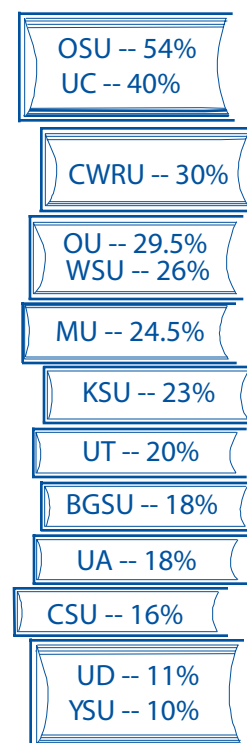
Average Number of EJC Journal Titles Owned in Print Compared to Average Number of EJC Journal Titles Downloaded in 2003



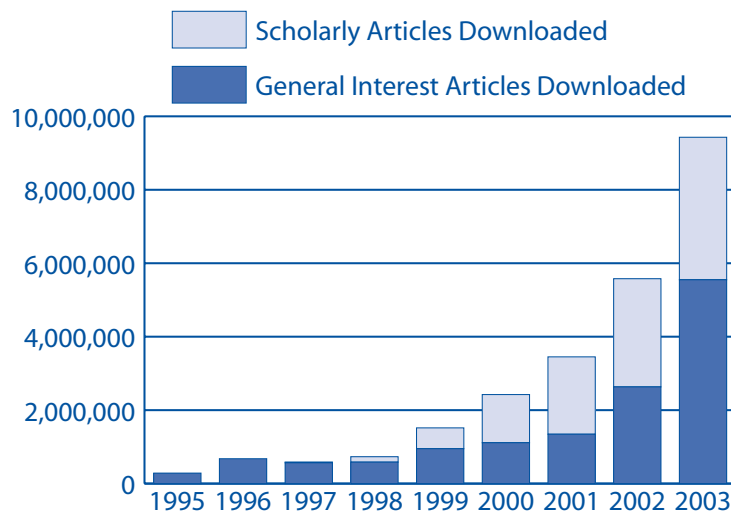
Fast Facts: Total EJC Downloads

- Since 1998:
10,959,500
- In 2003:
3,878,500

Percent of Print Held From Major Publishers for 5600+ Journal Titles

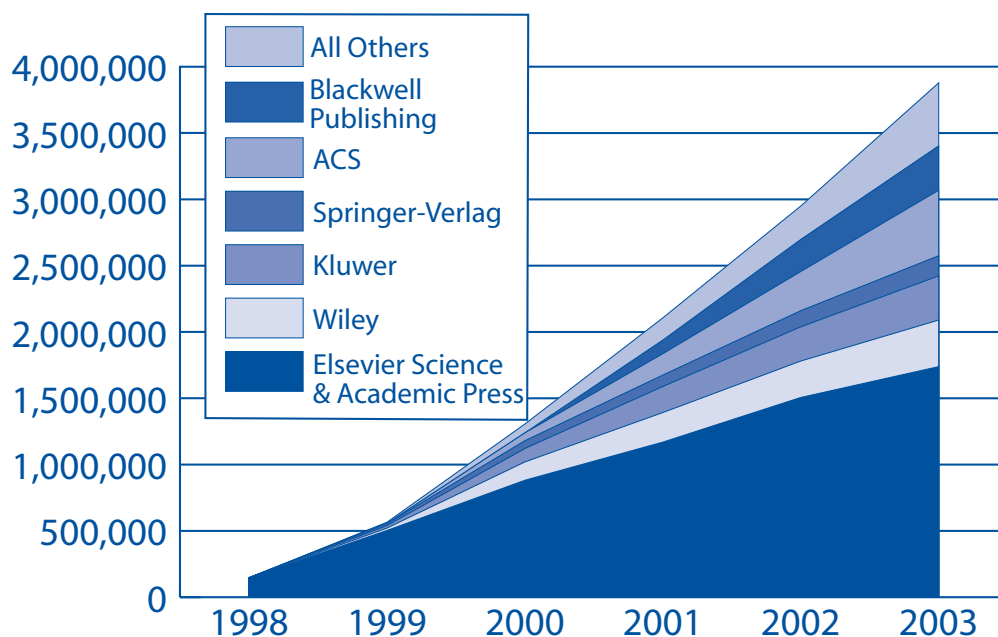


Number of General/Business and Scholarly Articles Downloaded



With over 5,000 titles, the EJC has more than quadrupled the buying power of Ohio higher education for 72 publishers (commercial and noncommercial) across a wide range of disciplines. The \$24 million invested in EJC statewide licenses is equivalent to \$95 million if purchased individually by our universities and a much larger amount if applied across all smaller colleges.

Annual EJC Article Downloads From Each Publisher



OhioLINK Resources Satisfy a Variety of Research Needs

Wendy Watkins

*Curator, Center for Epigraphical and Palaeographical Studies
The Ohio State University*

Wendy Watkins and her colleagues at OSU's Center for Epigraphical and Palaeographical Studies not only utilize OhioLINK resources in their research, they also share their collection of digitized squeezes (accurate paper impressions) of Greek and Latin inscriptions with scholars worldwide via the Digital Media Center. "OhioLINK is such a vital part of our daily lives, I don't know how we'd manage without it," Watkins said.

"We are involved in a multi-year project, sponsored by the Packard Humanities Institute, to put all Greek inscriptions into a CD-ROM - soon to be web-based - readable and searchable format. This means that for each inscription we need to see everything ever published about it."

As Watkins has experienced, even institutions with the largest library collections can benefit from statewide resource sharing. "OhioLINK is an essential tool for our

research. While Ohio State has an enormous library collection, no one library can supply us with everything we need. More often than not, we can find what we're looking for through OhioLINK and we don't have to wait weeks to get it. Using OhioLINK is like checking out books from our own university library, it is that convenient to use."

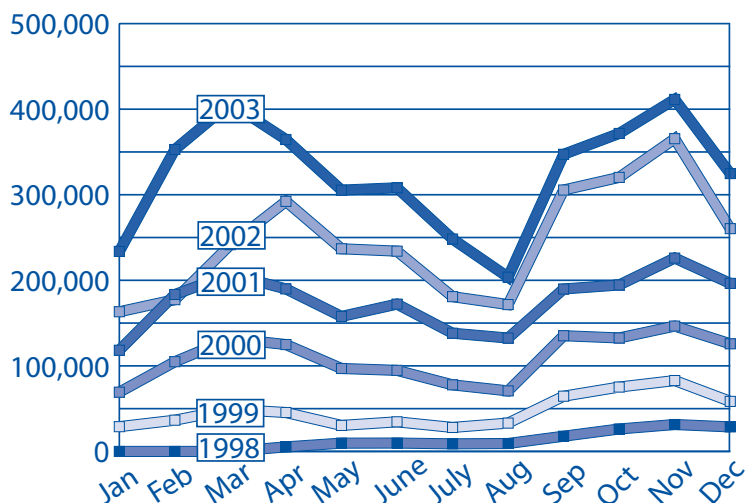
Watkins and her colleagues also enjoy sharing the OhioLINK system with other scholars who visit the university. "Each year several post-doctoral fellows from across the United States and Europe come to do their research in the Center and they have all been most impressed by - and envious of - the OhioLINK system."

The Center also contributes to the Digital Media Center's Social Sciences Database. "We have around 5000 squeezes in our collections which we are scanning and making available through OhioLINK and the DMC," Watkins explained. "Scholars from all over the world can now access our collection instantaneously, so they no longer have to make special requests of us for photographs of a squeeze or travel to Columbus to check it."

OhioLINK is such a vital part of our daily lives, I don't know how we'd manage without it.

The collection represents a significant core, but many scholarly journals remain beyond our reach. With the reduction in higher education funding, this unparalleled resource's future progress is in jeopardy. Plans are being formulated to reduce the number of titles in the collection beginning in 2005 in response to budgetary pressures.

EJC Monthly Article Downloads



OhioLINK Resources Improve Faculty Scholarship

Dr. Mark Bagshaw

*Professor of Management and Leadership
Marietta College*

"Before OhioLINK became available on my campus, I was a frustrated scholar trying very hard to continue a research program with whatever I could huddle together from my own and my institution's resources, and interlibrary loan. The collected materials directed not only my research agenda, but also what I was bringing by way of cutting-edge scholarship to my management and leadership classrooms. Being able to participate in OhioLINK and get my hands and mind on the treasures of all the OhioLINK libraries was the making of my professorial career."

OhioLINK EJC Helps Ohio University Professor Complete Major Project

Scott Hooper

*Associate Professor in Biological Sciences and Presidential Scholar in Life and Biomedical Sciences
Ohio University*

Scott Hooper began a major project last year: a major review article that covers more than 5000 journal articles on invertebrate muscles. The study of invertebrate muscles is basic to physiological studies of musculature, and as the first such review since the 1960s, Hooper's review will be an essential tool for advanced students and researchers in physiology.

Kudos to OhioLINK for putting the EJC together. Its ease of access has literally transformed my access to the scientific literature.

When he began the project, however, Hooper realized that locating and photocopying more than 5000 journal articles would be almost impossible within the allotted timeframe. Then he discovered the OhioLINK Electronic Journal Center (EJC), a rich online collection which contains the complete text of thousands of journals – over 4.4 million articles in all. The EJC transformed the project. "Our work would have been impossible without it," says Hooper. "We would have spent years in the library locating, pulling, and Xeroxing more than 5000 articles." With the EJC, the large majority of the articles are readily accessible on the workstations of Hooper and his colleagues. "Kudos to OhioLINK for putting the EJC together. Its ease of access has literally transformed my access to the scientific literature."

Digital Media Center



Digital Media Center Continues to Grow and Diversify

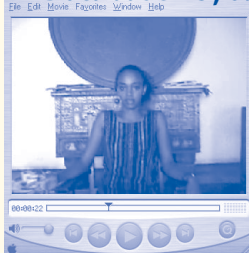
OhioLINK delivered its first images through the Digital Media Center (DMC) in August 1999. OhioLINK continues to be a pioneer in building statewide multimedia collections to support instruction and research with art and architecture images, historic maps, archival materials, educational videos, and video demonstrations of physics principles and foreign language speakers.

Annual Digital Media Downloads 2003

1 Historic & Archival Collections - 58,705



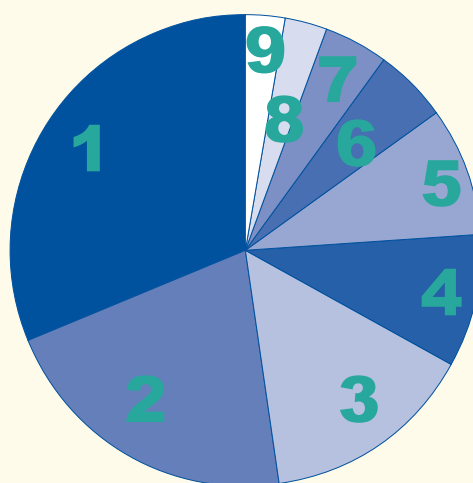
9 Foreign Language Database - 5,090



8 Social Sciences Database - 5,448



2 Art and Architecture Database - 39,543



7 AccuNet/AP Multimedia Archive - 8,273



3 Landsat 7 Satellite Images - 27,548



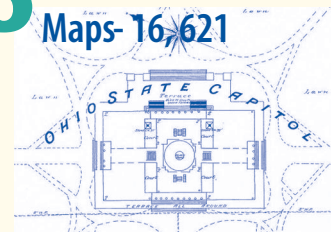
4 Digital Video Collection - 17,133



6 Encyclopedia of Physics Demonstrations - 9,512



5 Sanborn Fire Insurance Maps - 16,621



These diverse collections are from both commercial services and Ohio colleges and universities. The current DMC collections represent the tip of the iceberg. Vast collections held in Ohio's colleges can benefit Ohioans through electronic access.

Fast Facts: Most Used Physics Chapters Per Available Videos

1. Chapter 5 - Inertia
2. Chapter 2 - Linear Kinematics
3. Chapter 6 - Action and Reaction
4. Chapter 3 - Linear Dynamics
5. Chapter 1 - Units and Vectors

Things to Come in 2004

- Expanding the Digital Video Collection, which holds 1000 educational videos for streaming and downloading over the Internet.
- Adding journals from additional publishers to the Electronic Journal Center.
- Expanding collaboration with the Ohio Learning Network and the Ohio Supercomputer Center.
- Expanding the Electronic Reference Books Collection.
- Transforming the Digital Media Center into the Digital Resources Center of Ohio to include expanded institutional archival and video collections from participating OhioLINK institutions.
- Expanding the Chat with a Librarian service to include opportunities to chat with a subject-specialist librarian.

OhioLINK Snapshot

OhioLINK Governing Board

Ernest Cronan, Southern State Community College
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 Paul Gaston, Kent State University
 Alan Goodridge, University of Toledo
 Jeanne Jacobs, Sinclair Community College
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The OhioLINK Snapshot is available in print and online at www.ohiolink.edu/about/publications.html.

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OhioLINK Institutions



OhioLINK Benefits Higher Education

- Maximizes the utility of Ohio's academic library collections.
- Dramatically increases information access at small and large institutions.
- Delivers exceedingly cost-effective access to information.
- Increases Ohio's ability to prepare students and researchers for the information age.