

ICPSR CD-ROMs: An Alternative Medium for Data Dissemination and Storage

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Background

Over the past decade, the CD-ROM (Compact Disc—Read-Only Memory) has evolved into one of the more popular removable optical media in use. Initially a medium more suitable to institutional users such as libraries and special businesses that could afford expensive CD-ROM drives, CD-ROM technology is now widely available. Indeed, industry reports indicate that there are now over 100 million CD-ROM drives installed worldwide, and the market is expected to continue to grow. PCs now come with built-in CD-ROM drives as standard equipment, and software vendors distribute their programs and documentation routinely on CD-ROM. Multi-media CD-ROMs, combining video, music, sound, and text with easy-to-use search and retrieval systems, exist in almost every field.

Data producers and distributors have discovered that the distribution of data collections to a large number of users can frequently be accomplished efficiently using CD-ROM technology. The capacity of the current format CD-ROM (660 megabytes) means that large data collections, which may be difficult to download over the Internet, can easily be transported and installed on a network or on a desktop machine. And vast quantities of data, especially when compressed, can be stored on a small collection of CD-ROMs, reducing the need for huge and expanding magnetic disk storage.

Accordingly, growing numbers of data collections are available on CD-ROMs. Some data producers use CD-ROMs strictly as a transmittal and storage medium, whereas others bundle the data with search, retrieval, and analysis systems to give the user a complete integrated package on one small disc. The portability, reliability, and capacity of the CD-ROM make it an attractive choice for both the data producer and the user. Today, CD-ROMs on connected PCs allow users to combine the strength of the CD-ROM with the Internet, Intranet, LANs, integrated network data storage, and sophisticated retrieval systems.

CD recorders (CD-R) have recently become more widely available, enabling data producers to prepare single copies of a CD-ROM in-house without using a service bureau. This equipment is actually not suitable for the production of more than a few copies of a disc, and it is still not necessarily within reach of the data producer on a limited budget; however, as the cost of this equipment continues to drop, it will become more widely accepted and easier and more reliable to use. CD-Erasable (CD-E) technology, plagued with development problems in the past, may in the future allow users to employ compact discs in much the same way that they have used 3 1/2" diskettes. Also, it is expected that a new larger-capacity CD format will gain market dominance over the next few years, further expanding the utility of this medium.

All of this seems to point to the fact that CD-ROM will remain a viable medium for some time as it becomes more flexible in terms of reading and writing capabilities and increases in storage capacity.

While the number of titles on CD-ROM has mushroomed in recent years, the development of a CD-ROM title is frequently an expensive undertaking for a producer. Popular titles that sell thousands or millions of copies—music CD-ROMs, for example—will recover their developmental costs and can go on to generate income for their producers. However, specialty titles, such as those that contain given data collections and have a comparatively small audience, rarely recover their development costs. Such titles are often subsidized in some way or they could not be produced and offered to users at a reasonable cost.

When a CD-ROM is used strictly as a data transmittal medium, however, and no data processing or additional formatting is necessary, the CD can be a relatively economical medium for distributing significant quantities of data at low per-unit costs.

ICPSR's Experience

ICPSR has been involved in the distribution of selected data collections on CD-ROM since January 1991, when it issued its first CD-ROM title: **Panel Study of Income Dynamics, 1968–1987** (ICPSR 7439) [CD0001–CD0002]

(now out of print). This first thematic CD-ROM provided data in raw form with no software. Since the majority of researchers at ICPSR member institutions use either SAS or SPSS statistical analysis software, data definition statements for these packages were developed and were made part of the contents. No technical documentation was included on the CD-ROM; it remained in hard-copy form. The data were presented in ASCII format, allowing users to work with analysis packages of their choice rather than locking them into any given software system. This, however, meant that some additional work by the user was necessary before analysis of the data could begin.

The costs of developing and duplicating this first PSID CD-ROM were shared by ICPSR and the Panel Study of Income Dynamics project. Production costs were manageable since no software licensing fees were involved, and minimal data processing was required with the data already in processed form.

Response to this product was enthusiastic, with a majority of member institutions ordering copies. However, most users indicated on the accompanying questionnaire that while they were interested in desktop products like this, they were still performing most of their data analysis and management on mainframe systems—a situation which, of course, has changed dramatically on most campuses in the intervening years.

ICPSR has since issued several other thematic CD-ROMs, some of which incorporate innovative technologies. The American National Election Studies (ANES) CD-ROM, issued in May 1995, includes ANES time series data from 1948 through 1994; three of the datasets are bundled with data extraction software developed at the Center for Human Resource Research, Ohio State University, permitting users to prepare customized subsets for analysis. More recently, ICPSR has begun to

present technical documentation on CD-ROMs in Adobe Acrobat's Portable Document Format (PDF), along with Acrobat Reader software for searching and viewing the documentation. PDF files preserve the formatting and appearance of the original documents, provide linked indexes, and permit robust searches.

All thematic CD-ROMs currently available from ICPSR have been developed and produced with funding from outside sources, with ICPSR itself covering some portion of the costs. Without this outside support, most, if not all, of the CD-ROM products could not have been developed. While the duplication charges alone for CD-ROMs are reasonable, the costs involved in preparing the data and supplemental files can run into six-digit figures. Sales volume for these products does not begin to recover the developmental costs. If prices for the CD-ROMs were set so as to recover developmental and duplication costs, few, if any, copies would be sold.

CD-ROMs Produced by Other Organizations

In late 1995, ICPSR made available for the first time a CD-ROM produced by another archive. The **International Social Survey Programme (ISSP), 1985–1992**, was produced by the Zentralarchiv (ZA) at the University of Cologne. ICPSR and the ZA entered into an agreement to permit ICPSR to offer this title to its membership.

Similarly, ICPSR has also acquired the **Schools and Staffing Survey, 1993–1994: [United States]** for distribution. This title, available exclusively on CD-ROM, was produced by the National Center for Education Statistics, U.S. Department of Education.

We hope these two titles are just the beginning of a long series of agreements that will enable ICPSR to supply to its users additional data resources on

CD-ROM. Such agreements will also help to bring a greater variety of products into the holdings.

Periodic CD-ROMs

Last spring, ICPSR sent out the first of its "periodic" CD-ROMs, containing all additions to the data holdings that appeared in the February 1996 issue of the *ICPSR Bulletin*. Subsequently, a second periodic CD-ROM including May 1996 *Bulletin* studies was prepared and distributed.

These limited-issue products, which are significantly less expensive to produce than ICPSR's thematic CD-ROMs, are sent to all Official Representatives (ORs) on member campuses, who may use them to meet the particular needs of their local users.

The periodic CD-ROMs are intended to complement FTP service and to provide local storage for ICPSR data, thus permitting ORs to free up magnetic disk space formerly devoted to storing ICPSR data. In addition, time spent downloading ICPSR datasets over the network is reduced. The delivery of data on a physical device also avoids potential charges for use of the Internet.

Future Directions: Customized CD-ROMs

With the availability of CD-R technology and its growing reliability, ICPSR continues to keep the routine, economical production of customized CD-ROMs for its users as one of its goals. ICPSR staff are currently developing procedures that will allow users to order datasets of their choice on CD-ROM. We hope to have some form of this option in place later in the current fiscal year. Current development efforts are focused on an interface based upon the World Wide Web linked to the several databases with which ICPSR manages the archive. □

Janet K. Vavra is Technical Director and Manager of User Support and Archival Operations at ICPSR.

Summary of ICPSR's Thematic CD-ROMs

Below is a list of CD-ROMs currently available from ICPSR. For information about ordering, please contact ICPSR User Support.

Volume: CD0003 Study #: 6525 Title: Crime and Justice Data Sponsor(s): Bureau of Justice Statistics and ICPSR Release date: May 1992 Contents: • 20 studies focusing on victimization, police, adjudication, corrections, juveniles, and criminal justice system employment and expenditures • SAS and SPSS data definition statements • Documentation	• SAS and SPSS data definition statements • Documentation is hard-copy only, must be ordered separately.	Contents: • 59 studies on aspects of violence: general, youth, domestic, violence in criminal careers, violence and mental disorder, victims of violence, and capital punishment • SAS and SPSS data definition statements • Documentation • User guides • Data collection instruments
Volumes: CD0004 and CD0005 Study #: 7439 Title: Panel Study of Income Dynamics, 1968-1988 (Waves I-XXI) Sponsor(s): Panel Study of Income Dynamics project and ICPSR Release date: November 1991 Contents: • Family and Individual Respondent Data (CD0004) and Non-Respondent Data (CD0005) • SAS and SPSS data definition statements • Documentation is hard-copy only, must be ordered separately.	Volume: CD0007 Study #: 6261 Title: Crime Victimization Data, 1973-1991 Sponsor(s): Bureau of Justice Statistics and ICPSR Release date: January 1994 Contents: • Four studies on victimization from the National Crime Survey series • SAS and SPSS data definition statements • Documentation	Volume: CD0010 Study #: 6537 Title: American National Election Studies, 1948-1994 Sponsor(s): National Election Studies and ICPSR Release date: May 1995 Contents: • 22 American National Election time series studies • DataBase Access data extraction software (produced by the Center for Human Resource Research, Ohio State University) for use with three ANES datasets • SAS and SPSS data definition statements • <i>Bibliography of Data Use</i> • <i>Continuity Guide</i> • Documentation
Volume: CD0006 Study #: 7439 Title: Panel Study of Income Dynamics, 1968-1989 (Waves I-XXII) Sponsor(s): Panel Study of Income Dynamics project and ICPSR Release date: November 1993 Contents: • Family and Individual Respondent and Non-Respondent Data	Volume: CD0008 Study #: 6465 Title: National Medical Expenditure Survey, 1987: Household Survey Data Sponsor(s): National Institute on Aging and ICPSR Release date: December 1994 Contents: • Nine studies from the Household Survey component of the National Medical Expenditure Survey, 1987 • SAS and SPSS data definition statements • Documentation (codebooks and supplemental files)	Volume: ISSPZAKOELN (ZA-supplied CD-ROM) Study #: 6638 Title: International Social Survey Programme (ISSP), 1985-1992 Sponsor(s): Zentralarchiv für Empirische Sozialforschung, Universität zu Köln
Volume: CD0009 Study #: 6495 Title: Violence Research Data Sponsor(s): National Institute of Justice and ICPSR Release date: February 1995		

Release date: November 1995
(by ICPSR)

Contents:

- Eight ISSP studies on the role of government, social networks and support systems, social inequality, family and changing gender roles, work orientations, and religion
- SPSS portable (export) files
- SPSS setups (data definition statements)
- NSDstat analysis software (generates graphic displays)
- Documentation with full text search and retrieval software
- Questionnaires in all languages

Volume: CD0011
Study #: 7439
Title: **Panel Study of Income Dynamics, 1968-1992 (Waves I-XXV)**

Sponsor(s): Panel Study of Income Dynamics project and ICPSR

Release date: January 1996

Contents:

- Single-year Family Files for 25 years (1968-1992)
- Cross-Year Individual File for 25 years (1968-1992)
- Six supplemental files on time and money transfers, health, parent health, childbirth and adoption, and marriage history
- SAS and SPSS data definition statements
- Documentation
- *PSID Bibliography*

Volume: SASS9394
(NCES-supplied CD-ROM)

Study #: 6753

Title: **Schools and Staffing Survey, 1993-1994: [United States]**

Sponsor(s): National Center for Education Statistics

Release date: August 1996 (by ICPSR)

Contents:

- Four Schools and Staffing surveys: Teacher Demand and Shortage Survey, School Administrators Survey, School Survey, and Teacher Survey
- Data extraction software
- Documentation (Electronic Codebook System)

Volume: CD0012
Study #: 6587
Title: **Civil Justice Survey of State Courts, 1992: [United States]**

Sponsor(s): Bureau of Justice Statistics and ICPSR

Release date: September 1996

Contents:

- Two data files from the Civil Justice Survey of State Courts, 1992: (1) Tort, Contract, and Real Property Rights Data, (2) Civil Jury Data
- SAS and SPSS data definition statements
- Documentation in Portable Document Format (PDF)
- Acrobat Reader software for various platforms
- Related BJS reports in PDF file format

Volume: CD0013
Study #: 6727
Title: **Health and Well-Being of Older Adults**

Sponsor(s): National Institute on Aging and ICPSR

Release date: September 1996

Contents:

- Ten studies related to health and aging
- SAS and SPSS data definition statements
- Documentation in Portable Document Format (PDF)
- Acrobat Reader software for various platforms

Volume: CD0014
Study #: 6728
Title: **Violence Research Data, 2nd Edition**

Sponsor(s): National Institute of Justice and ICPSR

Release date: October 1996

Contents:

- 74 studies related to different aspects of violence (See CD0009 for violence categories; 14 studies were added for the second edition, and four were updated.)
- SAS and SPSS data definition statements
- Documentation, some of which is in Portable Document Format (PDF)
- Acrobat Reader software for various platforms
- User guides
- Data collection instruments

Volume: CD0015
Study #: 6786
Title: **Toward a Healthy America: Selected Research Data Collections From the Health and Medical Care Archive at ICPSR**

Sponsor(s): Robert Wood Johnson Foundation and ICPSR

Release date: Forthcoming at press time

Contents:

- 20 studies related to health and medical care
- SAS and SPSS data definition statements
- Documentation in Portable Document Format (PDF)
- Acrobat Reader software for various platforms

New Council Member Chosen

Suzanne Bianchi, Professor of Sociology and Faculty Associate at the Center on Population, Gender, and Social Inequality at the University of Maryland, has been elected by the ICPSR Council to complete the unexpired term of Michael McPherson, who resigned from Council when he accepted the position of President of Macalester College.

ICPSR Council and staff join in thanking Michael McPherson for his service to Council and in welcoming Professor Bianchi, who met with Council for the first time at its October 1996 meeting.

Professor Bianchi has served in a number of positions at the U.S. Bureau of the Census, most recently within the Population Division as Assistant Chief for Social and Demographic Statistics (1993–1994). She received her B.A. from Creighton University and her M.A. from the University of Notre Dame; her Ph.D. in sociology was obtained from the University of Michigan in 1978. Her research areas include demography, marriage and the family, race, ethnicity, and gender. She has published articles extensively in journals such as *Monthly Labor Review*, *Journal of Marriage and the Family*, *Demography*, and *Sociology of Education*, as well as numerous articles, papers, and reports for the Bureau of the Census. She has also published two books, *American Women in Transition* (1986), and *Household Composition and Racial Inequality* (1981). She is a member of the American Sociological Association, the National Council on Family Relations, and the Population Association of America. In 1988, she presented a series of lectures at the ICPSR Summer Program.

Clogg Summer Program Awards Presented

In May of 1995, following the death of Clifford Clogg, noted Professor of Sociology and Statistics at Pennsylvania State University, the ICPSR Summer Program in Quantitative Methods of Social Research established an awards program in recognition of Professor Clogg's extraordinary service to the Program.

The awards are given annually to a limited number of advanced graduate students in political science and sociology who have demonstrated extraordinary achievement and potential in quantitative/statistical research methodology. The awards are a joint function of the American Political Science Association (APSA) Methodology Group and the American Sociology Association (ASA) Methods Section.

The graduate students listed below received Clogg Awards in honor of their participation in the 1996 ICPSR Summer Program:

- **Robert Anderson**, Sociology, McMaster University (faculty advisor John Fox)
- **Marni Ezra**, Political Science, American University (advisor James Lynch)
- **Elizabeth Grieco**, Sociology, Florida State University (advisor Melissa Hardy)
- **Keiko Hirao**, Sociology, University of Notre Dame (advisor David Hachen)
- **Greg Huber**, Political Science, Princeton University (advisor Larry Bartels)

- **Laura Langer**, Political Science, Florida State University (advisor William Berry)
- **James Raymo**, Sociology, University of Michigan (advisor Yu Xie)
- **Zhiwei Zhang**, Sociology, Virginia Polytechnic Institute and State University (advisor Michael Hughes)

Clifford C. Clogg Conference Held

Pennsylvania State University hosted a conference September 26–28, 1996, entitled "Social Science and Statistics: A Conference in Honor of the Late Clifford C. Clogg."

The conference was sponsored by the American Statistical Association, the American Sociology Association, and the National Science Foundation. The event commemorated the impressive contribution that Professor Clogg made to social science methodology, applied statistics, and demography.

More than 50 scholars participated in a score of panels. One of the panels was organized by ICPSR in recognition of Clogg's service on the ICPSR Council and especially his role as Academic and Curriculum Advisor to the Summer Program. Stanley Wasserman, University of Illinois, chaired the ICPSR session. Kenneth Bollen, University of North Carolina, presented a paper on "Latent Variable Models with Interaction Terms." John Fox, McMaster University, presented a paper on "The Role (and Limitations) of Statistical Data Analysis in Social Research." Robert Stine, University of Pennsylvania, provided commentary, critiques, and a synthesis of the two papers. All four of the participants on the ICPSR panel are longtime members of the Summer Program teaching faculty.

IASSIST to Meet in Denmark

The International Association of Social Science Information Service and Technology (IASSIST) will hold its annual meeting May 6-9, 1997, in Odense, Denmark. IASSIST and the International Federation of Data Organizations (IFDO) are sponsoring the conference, which is held every fourth year in Europe. The theme for the 1997 conference is "Data Frontiers in the Infospace."

IASSIST brings together researchers, data producers, data archivists, data librarians, and support staff to explore the changing roles and relationships among those who work with social science data.

Tuesday, May 6, will be devoted to workshops on topics of interest to the IASSIST membership. For further information about the conference, please consult the IASSIST/IFDO97 Website at:

<http://www.sa.dk/dda/users/ddakb/iassist>

or contact:

Kirsten Pagh kp@dda.sa.dk

Karsten Boye Rasmussen kb@dda.sa.dk

ORs to Meet in 1997

The 23rd Meeting of ICPSR Official Representatives (ORs) will take place on the University of Michigan campus in Ann Arbor, Michigan, October 23-26, 1997.

All ORs—particularly those who are new to this role—are encouraged to attend the meeting, which provides a forum for discussion of changing technologies and a broad range of issues affecting the social science research community.

Further announcements regarding the meeting will appear in the *Bulletin* and on the ICPSR Website.

New Members Join ICPSR

Since the start of the new fiscal year July 1, 1996, several institutions have elected to join ICPSR, thereby providing their faculty and staff with access to ICPSR's rich data resources and educational opportunities.

New members include:

- University of Minnesota, Morris
- Ritsumeikan University (Japan)
- University of San Diego
- Siena College (New York)
- University of Wisconsin, Parkside

The ICPSR staff, Council, and Consortium members extend a sincere welcome to the new member schools and ORs and look forward to working with them in the future.

ICPSR Announces Web Policies

The following is a public statement of ICPSR policies intended to ensure the stability and predictability of its Web services:

ICPSR recognizes that today, more than ever before, its services must be seamlessly integrated into the worldwide information infrastructure. Just two years ago, when we primarily served only a limited group of Official Representatives (a few hundred people) directly and when we depended on the mainframe for most servicing work, it could be almost invisible to our end-users when we had a service

outage or when we changed an internal process or a directory structure. And the number of people visibly impacted was usually counted in the dozens, not the hundreds or even thousands. Today, for ICPSR as for all other serious providers of Web services, anything that changes our services will be instantly visible worldwide and can have immediate negative consequences for many users. As ICPSR is a service organization, any interruption or degradation of service is particularly important to us, because many of our users depend on us to be able to do their work.

Our Web services are not simply a convenience for our users, and certainly they are not primarily advertising: they are now or will soon be the principal means by which we deliver services. For example, from March 18 through November 8, the ICPSR Website had 1,019,851 hits from 47,148 different hosts. The trajectory is clearly upward. At the same time, many Official Representatives were receiving services through CDNet.

The World Wide Web is presently, some say, the most chaotic information resource that has ever been created—as well as the richest information resource ever known. It is hard to locate information on the Web, particularly as it fills with duplicate and extraneous information. It is difficult to sort out good quality from bad. One cannot predict whether an information resource that was available yesterday will be available today or whether a URL will be around in a month. What a page offers may change from day to day, and many pages are being offered on a highly experimental basis. There is often no commitment to sustaining Web pages over a period of years, meaning that the information to be found there is potentially transient. No library that operated like this would have been permitted to survive. It is time for those who are providing ser-

vices on the Web to recognize that chaos and unpredictability are not compatible with providing a good information resource. Accordingly, ICPSR is announcing Service Policies on the stability of URLs, scheduled maintenance, and service outages. We hope that other major Web service providers will follow our lead, adapting these policies to their own circumstances.

Service Policy: Ensuring the Stability of URLs (Summary)

- ICPSR will make changes to Universal Resource Locators (URLs) for its designated core pages only when there are strong technical or service-delivery reasons to do so.
- ICPSR will provide prior notification of changes in URLs or in the

functionality of Web pages to the external entities with which it has agreements concerning Web services.

- External Web sites are encouraged to have their pointers to ICPSR reviewed by the ICPSR technical staff for appropriateness.
- Wherever feasible, ICPSR will post pointer pages at the old address of a service, directing the user to the new URL.

Service Policy: Scheduled Maintenance and Service Outages (Summary)

- ICPSR announces that from 12:00 noon to 1:00 p.m. each working day (Monday through Friday, except holidays) ICPSR reserves

the right to take down the Web server for scheduled maintenance.

- ICPSR will provide the staffing needed to ensure that Web services are available during the 12-hour work day as it is observed in the U.S., i.e., from 8 a.m. Eastern Time to 5 p.m. Pacific Time.
- Following the inevitable unanticipated service outages, ICPSR will post a brief explanatory message to a log of outages accessible from the ICPSR home page.
- ICPSR will create and maintain a small list of contacts at the external entities with which it has agreements concerning Web services. These contacts will be notified in the event of an unanticipated service outage.

Notes and Errata

Errors were found in three data files included on the **1992 Panel Study of Income Dynamics, 1968–1992 CD-ROM** [ICPSR CD0011]. PSID staff has revised and reissued the files.

Changes affect the following files:

1. **1991 Family File**—Weight variables have been revised, and the values for V19001 (Release Number) have been changed to 003—previously they were 002.

Values for V20243 (1991 CORE FAMILY WEIGHT) and V20244 (1991 LATINO FAM WEIGHT) have been recomputed; the change affects 282 core families and 290 Latino families.

V20245 (COMBINED FAM WEIGHT) is not affected.

In the version of the file on the CD-ROM (PSID's Release 2), 282 core families have 1991 CORE FAMILY WEIGHT = 0 and 1991 LATINO FAM WEIGHT > 0, and 290 Latinos have 1991 LATINO FAM WEIGHT = 0 and 1991 CORE FAMILY WEIGHT > 0.

To fix the Release 2 data, the core cases need the 1991 LATINO FAM WEIGHT values moved to the 1991 CORE FAMILY WEIGHT variable and vice versa for the Latinos.

Core and Latino cases can be identified by the values of V19321 (1968 ID)—

the core cases have values in the range of 0001 to 6872, Latino cases have values in the range of 7001 to 9308.

To make the revisions on your own to Release 2 of the file, make the following changes:

if V19001=2 and V19321 in(0001–6872) and V20244>0 then
V20243=V20244 and V20244=0 and V19001=3

if V19001=2 and V19321 in(7001–9308) and V20243>0 then
V20244=V20243 and V20243=0 and V19001=3

Additions to Holdings

- Survey of Consumer Attitudes and Behavior, June 1993** — *Economic Behavior Program. Survey Research Center. University of Michigan* (ICPSR 6761)
- Survey of Consumer Attitudes and Behavior, July 1993** — *Economic Behavior Program. Survey Research Center. University of Michigan* (ICPSR 6762)
- Survey of Consumer Attitudes and Behavior, August 1993** — *Economic Behavior Program. Survey Research Center. University of Michigan* (ICPSR 6763)
- Survey of Consumer Attitudes and Behavior, September 1993** — *Economic Behavior Program. Survey Research Center. University of Michigan* (ICPSR 6764)
- Survey of Consumer Attitudes and Behavior, October 1993** — *Economic Behavior Program. Survey Research Center. University of Michigan* (ICPSR 6765)
- Survey of Consumer Attitudes and Behavior, November 1993** — *Economic Behavior Program. Survey Research Center. University of Michigan* (ICPSR 6766)
- Survey of Consumer Attitudes and Behavior, December 1993** — *Economic Behavior Program. Survey Research Center. University of Michigan* (ICPSR 6767)
- Survey of Drug Enforcement Tactics of Law Enforcement Agencies in the United States, 1992** — *Deborah Lamm Weisel* (ICPSR 6506)
- Victims and Witnesses in Milwaukee County, Wisconsin: Impact of Crime and Experience With the Criminal Justice System, 1974–1975** — *Richard D. Knudten, Anthony C. Meade, Mary S. Knudten, and William G. Doerner* (ICPSR 6369)

Revisions/Updates

- Americans' Changing Lives: Waves I and II, 1986 and 1989** — *James S. House* (ICPSR 6438)
- Euro-Barometer 41.0: Trade Issues, Blood Donation, AIDS, and Smoking, March–June 1994** — *Karlheinz Reif and Eric Marlier* (ICPSR 6422)
- National Jail Census, 1970** — *United States Department of Justice. Bureau of Justice Statistics* (ICPSR 7641)
- Prosecutor's Management Information System (PROMIS) Data, 1974–1975** — *Institute for Law and Social Research* (ICPSR 7643)
- State Court Statistics, 1985–1994: [United States]** — *National Center for State Courts* (ICPSR 9266)
- Uniform Crime Reporting Program Data: [United States]** — *United States Department of Justice. Federal Bureau of Investigation* (ICPSR 9028)

Publication Archive Additions

- Dynamic Analysis of the Role of War Chests in Campaign Strategy** — *Janet M. Box-Steffensmeier* (ICPSR 1121)
- Dynamic Model of Campaign Spending in Congressional Elections** — *Janet M. Box-Steffensmeier and Tse-Min Lin* (ICPSR 1120)
- Dynamics of Aggregate Partisanship** — *Janet M. Box-Steffensmeier and Renee M. Smith* (ICPSR 1119)

ICPSR Summer Program, 1997—Tentative Schedule (June 23–August 15)

First Session (June 23–July 18)

Lectures

Basic Mathematics
Mathematics for Social Scientists
Introduction to Computing
Advanced Topics in Social Research*

Workshops

Quantitative Historical Analysis
Introduction to Statistics and Data Analysis I
Mathematical Models: Game Theory
Introduction to Regression Analysis
Regression Analysis
Multivariate Statistical Methods
Scaling and Dimensional Analysis
Maximum Likelihood Estimation
GIS/Spatial Data Analysis

One-Week Workshops (Dates TBA)

Network Analysis
Logit and Log-Linear Models
Criminal Justice Methodology and Analysis
Hierarchical Linear Models
Use of Multiple Datasets for the Study of Aging
"LISREL" Models: Introduction
"LISREL" Models: Intermediate
Management of Computer-Readable Social Science Information

Second Session (July 21–August 15)

Lectures

Nonlinear Systems II
Introduction to Computing
Matrix Algebra
Dynamic and Longitudinal Analysis
Advanced Topics in Social Research*

Workshops

Simultaneous Equation Models
Regression Analysis
Time Series Analysis
Mathematical Models: Rational Choice
Introduction to Statistics and Data Analysis II
Categorical Data Analysis
"LISREL" Models: General Structural Equations
Advanced Analysis of Variance
Quantitative Analysis of Crime and Criminal Justice
Quantitative Analysis on Latin America
Mathematical Statistics

*Advanced Topics

Resampling Techniques: Jackknife and Bootstrap
Graphical Presentation and Analysis of Data
Missing Data Analysis
Data Visualization
Bayesian Modeling
Measurement in Social Science

For a copy of the 1997 ICPSR Summer Program brochure and application, contact: ICPSR Summer Program, P.O. Box 1248, Ann Arbor, MI 48106-1248, Phone: (313) 764-8392, E-mail: sumprog@icpsr.umich.edu, or consult the ICPSR Website: <http://www.icpsr.umich.edu>.

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