WSS NEWS

WASHINGTON STATISTICAL SOCIETY

January 1993

Academic Fair in Statistics

Interested in pursuing an advanced degree in statistics, but you don't know where to start? Has some WSS session convinced you that you really ought to go back and take some more courses in sampling? Have you ever wondered what courses are available where for yourself or some of your staff? Well, find the answers at the WSS' second biennial Academic Fair in Statistics, to be held Thursday, January 28, 1993, from 12:30 - 3:30 PM, at the Postal Square Building (next to Union Station). For more information, see the program write-up on page 8.

Short Course on Resampling Methods

The Washington Statistical Society is pleased to announce its next short course -- Resampling Methods for Complex Surveys, by J.N.K. Rao, Carleton University, Ottawa, Ontario, Canada. The course will be held Monday, March 1, 1993, 8:00 AM to 4:00 PM, at the Crystal Ballroom, Hyatt Regency Bethesda. For full details see the enclosed green flyer.

WSS Seminars
(All events are open to any interested persons.)

JANUARY		
6	Wed.	Caloric Adjustment II: What Happens When You Categorize the Nutrient Value?
7	Thur.	When Are Inferences from Multiple Imputation Valid?
13	Wed.	AUTOMATCH: A New Integrated System for Generalized Record Linkage Under Conditions of Uncertainty
14	Thur.	Confidentiality Issues -- Disclosure Avoidance Techniques: Using Linear Programming Methodology for Disclosure Limitation (2nd in series)
27	Wed.	The Joint University of Maryland and University of Michigan Program in Survey Methodology
28	**Thur.**	**Academic Fair in Statistics**
28	Thur.	Natural Gas Futures Prices: A Statistical and Econometric Analysis
29	Fri.	Small Area Estimation for the National Health Interview Survey

Announcements

Curtis Jacobs Memorial Prize

The Curtis Jacobs Memorial Award Committee announces its 1993 program. Students from Washington area middle schools and high schools are encouraged to demonstrate their understanding of sample surveys by conducting an original survey and presenting the results. (See the enclosed yellow flyer for details.)

This year's program has been expanded to any student who has been taught by a mathematics teacher who will teach a module on statistics during the 1992-1993 academic year. Please share the enclosed flyer with your schools. This project has already been approved by Math Coordinators in Fairfax and Prince Georges counties. If clearance is needed in your area, please encourage the school to forward the flyer to the appropriate person. For more information, contact Richard Valliant at (202) 606-7382 or Cathryn Dippo at (202) 606-7372.

New Ethics Rules
for Government Workers

New ethics rules take effect in February for all Federal employees. The new regulations govern such activities as giving and receiving gifts, restrictions on financial interests, outside employment and job hunting after leaving Federal service. For complete information on the revisions issued by the Office of Government Ethics, see the *Federal Register*, August 7, 1992.

As the *WSS NEWS* mentioned earlier, the original proposals also included severe restrictions on employee activities in support of professional associations. Recently, the *Federal Times* (October 19, 1992) reported that the use of official time for association work is not in jeopardy. For instance, a Federal worker may use government equipment to prepare a paper for presentation at a professional association. Furthermore, a government employee may receive an excused absence for participation in a professional conference.

More information about other aspects of this provision will be passed along as they become available.

1993 Joint Statistical Meetings

"I left my heart in San Francisco ...." There is still time to get on the program for the 1993 Joint Statistical Meetings in San Francisco, August 8-12. Abstracts and pre-registration fees are due for contributed papers and poster presentations by no later than February 1, 1993. Nonmembers of ASA, ENAR, WNAR and IMS must be sponsored by an association member. For more information, contact the the Meetings Department, American Statistical Association, at (703) 684-1221.

Calling All Volunteers

Volunteers are still needed to support two of WSS' key Quantitative Literacy efforts:

- **Career Day Speakers** -- Statisticians are still needed to fulfill the request from Fairfax County to speak to about 125 8th grade classes about what statistics is and what statisticians do. You need not live in Fairfax County to participate. For more information, call Shail Butani at (202) 606-6347.

- **Science Fair Judges** -- Volunteers are still needed to represent WSS as judges in local area science fairs next spring. For more information, see last month's *WSS NEWS* or call Lee Abramson at (301) 492-3949.

Program Abstracts

Topic: Caloric Adjustment II: What Happens When You Categorize the Nutrient Value?

Speakers: Victor Kipnis, Sholom Wacholder and Charles Brown, National Cancer Institute

Chair: Laurence S. Freedman, National Cancer Institute

Date/Time: Wednesday, January 6, 1992, 11:00 AM - 12:00 Noon

Location: National Cancer Institute, Conference Room G, Executive Plaza North, 6130 Executive Blvd., Rockville, MD. (Red Line -- White Flint; approximately 1 mile)

Sponsor: Division of Cancer Prevention and Control, National Cancer Institute and Public Health and Biostatistics Section

Abstract: The authors discuss the interpretation of four alternative calorie adjustment models (Residual, Standard, Partition, and Nutrient Density) that have been proposed for the analysis of nutritional epidemiology studies. First, different effects addressed by these models and the precision of their estimators are discussed when the nutrient of interest is measured as a continuous variable. Since it is common practice to categorize nutrient intakes in the analysis, they investigate the effect of such categorization on the interpretation of results from the four models, using computer simulations and statistical theory. They consider four cases, where the nutrient intake is either divided into quartiles or ordered so as to investigate trend over the quartile groups, combined with using an adjusting variable that is either continuous or categorized.

Newsletter in Search of an Editor

For the past year and a half Bettye Jamerson and Wendy Alvey have been working hard to re-shape the *WSS NEWS* into a more informative and timely vehicle to notify you about all of the various activities of the Washington Statistical Society. As fun and challenging as that has been, it is time to step down. Therefore, WSS is looking for a new editor to take over this very important task. Volunteers with some time on their hands (and, preferably, knowledge of Pagemaker or some other desktop publishing software) should contact Marie Argana at (301) 763-4595. Jamerson and Alvey have agreed to finish out the current year (through June 1993), but would like to begin working with the new editor as soon as possible, in order to ensure a smooth transition.

Program Abstracts (cont'd)

Topic: When Are Inferences from Multiple Imputation Valid?

Speaker: Robert E. Fay, Bureau of the Census

Discussant: Joseph L. Schafer, Pennsylvania State University

Chair: Phil Kott, National Agricultural Statistics Service

Date/Time: Thursday, January 7, 1993, 12:30 - 2:00 PM

Location: Postal Square Building, Room G-440, Meeting Room 8, 2 Massachusetts Ave., NE,
            Washington, DC. (Red Line -- Union Station) Enter at First Street.

Sponsor: Methodology Section

Abstract: Multiple imputation, as described by Rubin, has seen a wide variety of applications.
            Counter-examples, presented by Fay (1991), and new methods, such as those of J.N.K.
            Rao, have raised questions about the validity of multiple imputation. This talk, based on
            a paper presented at the 1992 American Statistical Association meetings, identifies critical
            restrictions on the practical application of multiple imputation. It also discusses alterna-
            tives that can provide asymptotically valid inferences for some of the situations in which
            multiple imputation fails.

            The talk will present the examples raised at last summer's meetings and additional
            simulations illustrating the consequences of using multiple imputation for mass imputation,
            which have been applied to complete a large data set on the basis of a considerably smaller,
            randomly selected data set.

Program Abstracts (cont'd)

Topic: AUTOMATCH: A New Integrated System for Generalized Record Linkage Under Conditions of Uncertainty

Speaker: Matthew A. Jaro, Data Star, Inc.

Discussant: William E. Winkler, Bureau of the Census

Chair: Tapan Nayak, George Washington University

Date/Time: Wednesday, January 13, 1993, 12:30 - 2:00 PM

Location: BLS Cognitive Lab, Postal Square Building, Room 2990, 2 Massachusetts Ave., NE, Washington, DC. (Red Line -- Union Station)

Sponsor: Methodology Section

Abstract: New software has been written to provide record linkage for individual records, single file unduplication and geographic coding under conditions of uncertainty. An integrated approach is used to provide multi-pass matching in a manner transparent to the user. All of the data management problems usually associated with record linkage projects have been automated. Since the files involved in a linkage project are often large, it is important that there be no additional copies of the files generated through sorting or matching stages.

The AUTOMATCH system uses the Felligi-Sunter model for record linkage. It provides automatic frequency analysis of the value states of each field in order to estimate μ- probabilities. The m- probabilities can be estimated by individual value state so as to obtain a balanced probability model. (Often μ- probabilities are computed by value and m- probabilities are estimated globally for all values.) Assignments are made using a Linear Sum Assignment Program to maximize the assigned weights over an entire block of candidate matches. The matcher provides detailed statistics, including a histogram of the weight distribution for estimating error rates.

An interactive clerical review program permits the inspection and correction of the gray area between match and nonmatch decisions. Duplicates on either file can also be inspected. A history file maintains a record of manual decisions, so that if the match is rerun, these decisions can be reapplied. A general report writer, a file-extraction program, record and variable browsing programs are all supplied. The system is available on IBM-PC, Unix, Vax and mainframe platforms, and there are no file size limitations. No separate Sort/Merge utilities or Data Base Management Systems are required, since the programs operate on flat files, and very efficient indexes are created to obviate the need for sort/merge processes.

The presentation will discuss the integration of multi-pass matching, the probability model used, frequency analysis, parameter estimation, linear sum assignment, field comparison methodology, and projects undertaken for the National Highway Traffic Safety Administration. A demonstration of the software will be given.

Program Abstracts (cont'd)

Topic: Confidentiality Issues -- Disclosure Avoidance Techniques: Using Linear Program-
             ming Methodology for Disclosure Limitation (2nd in series)

Speaker: Laura Zayatz, Bureau of the Census

Discussant: Ram Kumar, University of Maryland

Chair: Nancy Kirkendall, Energy Information Administration

Date/Time: Thursday, January 14, 1993, 12:30 - 2:00 PM

Location: National Science Foundation, Conference and Training Center, Room 500D, 1110
             Vermont Ave., NW, Washington, DC. (Blue/Orange Lines -- McPherson Square; walk
             across park to 15th and K Streets, go two blocks to Vermont Ave.)

Sponsor: Statistical Computing Section

Abstract: The Census Bureau collects information about the country's business establishments under
             a pledge of confidentiality. It then publishes the information in the form of non-negative,
             additive two- and three-dimensional tables. Some cell values in the published tables cannot
             be published without risking disclosure of confidential information. Due to table additivity,
             the Bureau must suppress publication of other cells, called complementary suppressions, to
             ensure that cells with risk, called primary suppressions, are not derivable. The Bureau
             attempts to choose cells for complementary suppression so that the sum of the values
             suppressed is minimized, while still ensuring confidentiality. While network flow meth-
             odology handles the problem quite nicely for two-dimensional tables, linear programming
             methodology has some advantages for three-dimensional tables. We will describe the
             technique of using linear programming methodology to find suppression patterns for two-
             and three-dimensional tables. Techniques of improving the results will be outlined.

Program Abstracts (cont'd)

Topic: The Joint University of Maryland and University of Michigan Program in
             Survey Methodology

Speakers: Stanley Presser and Robert Groves, Joint University of Maryland-University of
             Michigan Program in Survey Methodology

Chair: Sharon Warden, *The Washington Post*

Date/Time: Wednesday, January 27, 1993, 12:30 - 2:00 PM

Location: Conference and Training Center, Room G-440, Meeting Rooms 1&2, Postal Square Bldg.,
             2 Massachusetts Ave., NE, Washington, DC (Red Line -- Union Station) Enter at First
             Street.

Sponsors: Washington-Baltimore Chapter of the American Association for Public Opinion Research
             (AAPOR) and the Washington Statistical Society

Abstract: The National Science Foundation has made an award to the University of Maryland,
             College Park to establish the Joint University of Maryland-University of Michigan
             Program in Survey Methodology in collaboration with Westat, Inc. The program will carry
             out graduate training and research in survey methodology with special attention to the needs
             of the Federal statistical system.

             Beginning in 1993-94, the University of Maryland plans to offer a Master of Science in
             Survey Methodology, to be administered by the Joint Program. The M.S. will have two
             areas of concentration: one focusing primarily on social science aspects of survey
             methodology and the other concentrating on statistical aspects of survey methodology. As
             many students will probably be employed in a survey organization (at least parttime),
             special attention will be given to designing course structures that accomodate the needs of
             working students. The Joint Program will also offer noncredit short courses during 1993
             and become the second site of the long-standing University of Michigan Summer Institute
             in Survey Reseach Techniques, beginning in Summer 1993.

             The presentation will focus on this unique new program and what it had to offer for area
             statisticians. Ample time has also been scheduled for informal discussion.

Program Abstracts (cont'd)

Topic: Academic Fair in Statistics

Panelists: Robert Jernigan, The American University, Dept. of Mathematics and Statistics
                Edward Wegman, George Mason University, Dept. of Operations Research and Statistics
                Robert Smythe, George Washington University, Dept. of Statistics and Computer Science
                Tom Mazzuchi, George Washington University, Dept. of Operations Research
                Piotr Mikulski, University of Maryland, Dept. of Mathematics
                Stanley Presser, Joint University of Maryland-University of Michigan Program in Survey
                    Methodology

Co-Chairs: Nancy Flournoy, The American University
                Carol Van Horn, Bureau of the Census

Date/Time: Thursday, January 28, 1993, 12:30 - 3:30 PM

Location: Conference and Training Center, Postal Square Bldg., 2 Massachusetts Ave., NE, Wash-
                ington, DC (Red Line -- Union Station) Enter at First Street.

Sponsor: Washington Statistical Society

Abstract: Education is a lifetime experience. The quality of that experience is up to you and the
                educational opportunities available to you. Once again, the WSS is sponsoring the
                Academic Fair in Statistics, to make you aware of local opportunities and how to take
                advantage of them.

                The program will feature presentations by representatives from the graduate programs in
                statistics offered in the Washington, DC metropolitan area. Exhibits from each of the
                participating schools will be set up for you to look at in greater depth and representatives
                will be on hand to answer your questions. Information on ALADIN, the Washington
                Research Library Consortium's computerized library catalogue system, will also be
                available.

                Come get to know us -- we look forward to seeing you in class.   (Large groups please
                RSVP by calling Nancy Flournoy at (202) 885-3127.)

Program Abstracts (cont'd)

Topic: Natural Gas Futures Prices: A Statistical and Econometric Analysis

Speaker: John H. Herbert, Energy Information Administration and Virginia Polytechnic Institute
              and State University

Chair: Chuck Dale, Energy Information Administration

Date/Time: Thursday, January 28, 1993, 12:30 - 2:00 PM

Location: Room GJ-015 Forrestal Bldg., 1000 Independence Ave., SW, Washington, DC. (Yellow
              or Blue/Orange Lines -- L'Enfant Plaza) Government employees show ID; nongovernment
              employees contact John Herbert at (202) 586-4360, by no later than Jan. 27, 1993, to
              arrange for admittance.

Sponsor: Agriculture and Natural Resources Section

Abstract: The natural gas futures contract market is a new and increasingly important market. The
              price of gas on this market greatly influences decisionmaking in the gas industry. This
              presentation will, first, provide a historical summary of prices on this market. Then, a much
              deeper analysis will be presented to address several important research questions. Do
              futures prices determine spot prices or do spot prices determine futures prices? Has the
              futures market increased price volatility on the spot market? Is the natural futures contract
              market an efficient market? Conventional econometric tools, such as cointegration tests,
              as well as more data analytic approaches, are applied as part of the analysis.

Program Abstracts (cont'd)

Topic: Small Area Estimation for the National Health Interview Survey

Speaker: David Marker, Westat, Inc.

Chair: Donald J. Malec, National Center for Health Statistics

Date/Time: Friday, January 29, 1993, 10:00 - 11:30 AM

Location: National Center for Health Statistics, Auditorium, Presidential Bldg., 11th Floor, 6525 Belcrest Road, Hyattsville, MD

Sponsors: Office of Research and Methodology, NCHS, and the Washington Statistical Society

Abstract: The National Health Interview Survey (NHIS) would like to produce small area (state) estimates in addition to those at the national level and for minority groups. The presentation will briefly discuss the ongoing effort to redesign the NHIS to improve its ability to provide these estimates. The effort is complicated by the fact that minority groups tend to be concentrated in the larger states; thus, steps taken to improve precision for minority groups tend to decrease precision for small areas. This conflict in designing a survey simultaneously for small area estimation and other targeted population groups is frequently encountered.

The redesign of the NHIS has attempted to balance these two competing requirements. One result of this compromise is the fact that insufficient data will be available to produce design-unbiased estimates for the overwhelming majority of small areas. It is, therefore, necessary to explore the use of model-based estimators for producing small area estimates. The second part of the presentation will introduce a new model-based small area estimator, the Generalized Synthetic Estimator (GSE). The estimator is developed from a Bayesian perspective. Under a series of limiting assumptions, the classical synthetic estimator, and other frequently used small area estimators, can be shown to be special cases of the GSE.

The final part of the presentation is an empirical comparison of estimators using NHIS data. Estimates based on a single year's data will be shown for each of the 50 states and the District of Columbia. A procedure for developing state-specific design-based mean square errors for these model-based estimators will be introduced.

Announcements (cont'd)

QL Update

As part of its Quantitative Literacy effort, the Center for Statistical Education, American Statistical Association, announces two other student competitions, in addition to the WSS/ASA Curtis Jacobs Award Program.

- The Statistics Project Competition offers an opportunity for students to work together as a team to discover the scope and applicability of techniques in statistics, to apply these techniques and to develop a critical appreciation of the logical progression from research questions to research conclusions. The competition is open to all students in grades 4-12, enrolled in public or private schools in the United States and Canada.

- The Statistics Poster Competition encourages and promotes understanding and application of statistics through a focus on graphical analysis of data. The competition is open to all students in grades K-12, enrolled in public or private schools in the United States and Canada.

The deadline for both of these competitions is April 15, 1993. For more information, contact Kathryn Rowe, ASA Center for Statistical Education, 1429 Duke Street, Alexandria, VA 22314-3402; phone: (703) 684-1221; FAX: (703) 684-2037.

Dinner Panel Session on Enhancing Innovation and Productivity

The Institute of Industrial Engineers of the Washington Academy of Sciences and the American Society of Quality Control are jointly sponsoring a panel discussion on Enhancing Innovation and Productivity. The dinner session will be held Tues-

day, January 12, 1993, 6:00-9:00 PM, at the Crystal City Marriott, 1999 Jefferson Davis Highway, Arlington, VA. Featured speakers will be:

John Sanders, Chairman and CEO of Tech-News, Inc.

Stan Settles, Assistant Director for Industrial Technology, White House Office of Science and Technology Policy

Jack Simon, Technology Liaison Manager for General Motors Corp. and Chairman of an industry coalition of manufacturers to advise the White House.

Admission is $20 per person for dinner. (No charge to attend only the panel discussion, which begins at 8:00 PM.) For more information or reservations, contact David Miller at (202) 646-6698 (work) or (301) 986-4677 (home) by noon, January 11.

GWU Announces Three Courses for Spring 1993

The Department of Statistics/Computer and Information Systems, George Washington University, announces three graduate level courses being offered for the Spring semester.

- Linear Models -- This course will cover the more theoretical aspects of generalized linear models. (Instructor: Sudip Bose, W 6:10-8:40 PM)

- Bayesian Statistics -- This course will introduce Bayesian statistical methods with an emphasis on applications. (Instructor: Blaza Toman, Th 6:10-8:40 PM)

- Variance Estimation for Sample Surveys -- This course will cover various techniques for variance estimation in sample surveys, in-

Announcements (cont'd)

GWU Spring 1993 Courses (cont'd)

cluding random groups, repeated replications, jack knife, Taylor linearization and bootstrap. (Instructor: Promod Chandhok, M 6:10-8:40 PM)

For further information, contact the Department of Statistics/C&IS at (202) 994-6356.

AU Announces An Art Contest Celebrating Math Awareness Week

The Mathematics and Statistics Department of The American University proudly announces an art contest to celebrate Math Awareness Week in April 1993. Participants are encouraged to submit original 2- or 3-dimensional art works relating to mathematics. A separate category will be reserved for amateur videos. Your imagination is the only limit to what can be submitted!

Submission deadline is April 5, 1993. Entries should be sent to the Mathematics and Statistics Office, Clark Hall, Room 205, The American University, Washington, DC 20016-8050. Please include a paragraph explaining how mathematics influenced the work.

Art works will be displayed on the AU campus April 12-24, 1993. For further information, contact Peggy Winfield at (202) 885-3120.

Reminders from Previous Newsletters...

1/ 3-5/93   1993 American Statistical Association Winter Conference, Ft. Lauderdale, FL. Call ASA at (703) 684-1221 for information.

1/ 4/93   Applications due for ASA/NSF Research Fellowship for On-Site Research to Advance the Quality of Science and Technology Resources, National Science Foundation. Call Carolee Bush at (703) 684-1221 for information.

1/ 4/93   Applications due for ASA/NSF/Census Research Program and Census Bureau Research Fellow Program, Bureau of the Census. Call Maxine Anderson-Brown at (301) 763-1150 for information.

1/ 25-26/93   National Institutes of Health Conference on Current Topics in Biostatistics, Bethesda, MD. Call Dina Rice at (703) 536-3200 for information.

Tentative Schedule of SIGSTAT Meetings

SIGSTAT is the Joint Special Interest Group in Statistics for the Capital PC User Group and WORMSC (Washington Operations Research/ Management Science Council). The tentative schedule of events for the next two months is as follows:

01/13/93: SHAZAM & LIMDEP.--A double feature of econometric packages. SHAZAM also has an OS/2 version.

02/10/93: MathCad.--New Windows version of the "mathematical scratchpad." Includes symbolic and numeric computations along with graphics.

All meetings are scheduled for Wednesdays from 12:30 - 1:30 PM in Room B-14, 1301 New York Ave., NW, Washington, DC. (The building is located midway between the Metro Center and McPherson Square Metro stops.) If this is your first SIGSTAT meeting, call Charlie Hallahan, (202) 219-0507, to gain entry into the building.

Employment Column

As a service to local statisticians, the **Washington Statistical Society News** provides notification of employment opportunities and descriptions of those seeking employment here in the Washington, DC area. Readers are encouraged to take advantage of this feature of the newsletter. The deadline for inserting notices is five (5) weeks before the publication date. Those interested should write to: Bill Arends, USDA-NASS, Room 4133 South Building, Washington, DC 20250-2000. Contact Mr. Arend at (202) 720-6812.

Vacancies

Tenure Track Position at Georgetown

The School of Business Administration at Georgetown University invites applications for a tenure-track position (rank open) in Decision Sciences, to begin August 1993. Ph.D. in Statistics or related field with commitment to excellence in teaching and research is required. Candidates should have research specialization in Bayesian analysis, with applications in Accounting, Finance, Marketing or Management. Teaching responsibili-

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New Years Resolution #27

Recruit a new WSS member. WSS offers many services -- the newsletter, lunch-time sessions, short courses, Quantitative Literacy programs, social events.... Although many of these opportunities are open to nonmembers, membership fees are needed to ensure that they will continue. Associate memberships in WSS are only $14 a year. Please recruit a member for the New Year.

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ties include undergraduate and graduate business courses in Statistics and related areas. Applications will be accepted until January 7, 1993. Interested candidates should send C.V. and cover letter to Virginia Flavin, Coordinator, Decision Sciences Search, School of Business Administration, G-04 Old North, Georgetown University, Washington, DC 20057. EOE/AAE

Statistician/Economist at HCFA

The Office of Research of the Health Care Financing Administration (HCFA) has an opening in Baltimore, MD, for a statistician or an economist. The incumbent will provide consultation on statistical and econometric issues and will also carry out policy relevant research through the application of quantitative methods to issues of importance to HCFA, including health insurance reform in Medicare and the U.S., as a whole; the effect of government regulation on prescription prices in Medicaid; and access to physician services. The incumbent will also serve as project officer on extramural research projects. Qualifications for the position include a graduate degree in statistics or economics or in a closely allied field. A Ph.D. and research experience are very desirable. The position offers an exceptional opportunity for professional development through highly visible, policy-relevant research conducted in collaboration with an outstanding professional staff. The incumbent will have access to the administrative data bases of Medicare and Medicaid, to HCFA-sponsored surveys, and to other large data bases. Interested persons should contact James Lubitz, Office of Research, HCFA, 2504 Oak Meadows Bldg., 6325 Security Blvd., Baltimore, MD 21207-5187; or phone (410) 966-6696. EOE/AAE

Employment Column (cont'd)

Senior-level Statisticians

Chilton Research Services, a top 15 market research supplier located in suburban Philadelphia, is seeking two senior-level individuals to supply a rapidly growing demand for statistical services:

- Senior Methodologist/Statistician.--Requires highly developed communication and management skills to present innovative study and sample designs to prospective clients. Designs must be implemented in a cost-effective and timely manner through the supervision of a staff of six. Position further requires experience in providing demographic incidence estimates, as well as sample balancing and complex weighting schemes.

- Director of Analytical Services.--Requires thorough knowledge of current and emerging multivariate techniques, conjoint, discrete choice and simulation modeling, SAS and/or SPSS. Strong management skills necessary to maintain quality control in an atmosphere of fast delivery and competing priorities. Knowledge of PC and mainframe, as well as related software, required to occasionally provide programming support to a staff of six professionals.

Both positions report to the Vice President/ Director of Operations and offer highly competitive compensation packages. Send resume to: Employment Manager, Chilton Company, Division of Cap Cities/ABC, Inc., 201 King of Prussia Road, Radnor, PA 19089. EOE. M/F/D/V.

Job Applicant

Listed below is a brief description of the qualifications of an applicant seeking employment. Employers interested in interviewing an applicant should contact Bill Arends by mail -- at USDA-NASS, Room 4133 South Building, Washington, DC 20250-2000 -- or by telephone -- at (202) 720-6812. All requests should include the code number from the applicant's ad and employer's name, organization, and telephone number. The applicant will be notified of the employer's interest and initiation of any further contact will be left to the applicant. All contacts will be kept confidential.

Applicant #93-02

Education:
> M.S. in Statistics, University of Maryland
> M.A. in Applied Mathematics, University of Maryland

Skills:
> Over three years of related work experience.

Analyzed software packages; developed mathematical and statistical models. Experience with writing reports. All phases of software development, and many mathematical software packages. Also have teaching and supervision experience.

Creative, analytical, dependable.

Obituary

Theodore D. (Ted) Woolsey

Theodore Dwight Woolsey, 79, died November 27 in Dorset, Vermont, after a heart attack while vacationing. Ted was a frequent, and always in-

Obituary (cont'd)

Theodore D. (Ted) Woolsey

terested, participant in Washington Statistical Society technical and social activities. In fact, he was the first member of the audience to arrive for this year's Morris Hansen Memorial Lecture, just 10 days before his death.

Ted, who was born to American parents in Paris, grew up in Connecticut. He was a 1936 Phi Beta Kappa graduate of Yale University and did graduate work in statistics at Johns Hopkins University. He began his government career in 1938 with the Census Bureau. After a short time, he joined the New York State Health Department, then served with the Navy in World War II.

In 1946, Ted Woolsey joined the Public Health Service after a brief stint in the Commerce Department. He was Chief of the Special Surveys Section of the Vital Statistics Division, and later worked in the National Survey Division. Ted became Deputy Director of the National Center for Health Statistics in 1963 and was Director from 1967 until he retired

in 1973. He was the recipient of a 1973 Distinguished Service Award from the Department of Health, Education and Welfare.

Ted served as a Representative-at-Large of WSS in 1961-62 and as President in 1963-64. He also served as the Chair of the Social Statistics Section of the American Statistical Association. He became a fellow of ASA in 1955 and was a fellow of the American Public Health Association.

After his first retirement, Ted was a private consultant on health statistics for clients such as Georgetown and Johns Hopkins Universities and Westat, Inc. of Rockville, MD, before retiring again in 1982. After that, he became an ardent supporter of the Council of Professional Associations on Federal Statistics and served as its chairperson for two years. He was also active with the Friday Morning Music Club. Ted was a past president of the Edgemoor Club of Bethesda and a member of Chevy Chase Presbyterian Church and the Bethesda Country Club.

Ted is survived by his wife, the former Adele Hargreaves, two sons, a daughter, four grandchildren and one great grandson.

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* * * Note from *WSS NEWS* Editors * * *

Items for publication in the February *WSS NEWS* should be submitted no later than **Tuesday, January 5, 1993**. Fax items to:

Bettye Jamerson or Wendy Alvey
Fax: (202) 874-0922

President	**Past President**	**President-Elect**
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