



WSS NEWS

# WASHINGTON STATISTICAL SOCIETY

## WASHINGTON STATISTICAL SOCIETY 2011-12 ANNUAL REPORT

The 2011-12 program year for the Washington Statistical Society produced a number of good seminars and other activities. Some of the highlights were:

### Membership

- The WSS membership is approximately 950 members strong.

### Seminars and Conferences

- There were 19 technical sessions schedule and most of them were videocast to remote sites. Many of the slides from the sessions were uploaded on the WSS website.
- WSS and the Inter-agency Committee on Confidentiality and Data Access (CDAC) sponsored a successful one-day seminar on confidentiality in the federal context. The seminar had approximately 80 attendees.



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- A special President's Invited Panel was held in May. Kathy Wallman, Chief Statistician of the United State from the Office of Management and Budget was the guest speaker.
- Along with DC-AAPOR, WSS co-sponsored a successful Summer Conference Preview/Review which brought a sample of talks from the 2012 AAPOR and JSM on June 21-22, 2012. This conference was particularly valuable since many local area statisticians have not been able to attend these conferences due to budgetary constraints.

### Awards

- The Morris Hansen Lecture series was set up to honor Morris Hansen, whose pioneering contributions to survey sampling and related statistical methods during his long and distinguished career at the Census Bureau and at Westat established many standards and methods, mostly still in use, for the conduct of surveys. The Hansen Lecture series seeks to achieve balance between theory, applications, and policy; and to highlight the diversity of disciplines that inform survey practice. The 2011 Morris Hansen Memorial Lecture was held at the Jefferson Auditorium of the Department of Agriculture and featured Bob Groves and Rod Little from the U.S. Census Bureau. The discussant was Natalie Shlomo, Southampton Statistical Sciences Research Institute University of Southampton, United Kingdom. This lecture was made possible by the co-sponsorship of Westat, the National Agricultural Statistics Service and WSS.
- The 2011 Roger Herriot Award, co-sponsored by WSS, and the Government and Social Statistics sections of the American Statistical Association (ASA) was presented to Mike Messner from the Environmental Protection Agency at the 2011 Joint Statistical Meetings in Miami.
- The WSS Board voted to contribute towards the Jeanne Griffith Mentoring Award which was established in the memory of Jeanne Griffith who died in August 2001 after working for more than 25 years in the Federal statistical system. The award was established to encourage the mentoring of younger staff in the Federal statistical system.
- The 2012 Gertrude Cox Award was presented to Amy Herring. Before the annual dinner she presented on, "Beyond Age at First Sex: Modeling Patterns of Emerging Sexual Behavior in Adolescents and Young Adults." The Gertrude Cox Award is made possible by funding from RTI International.
- The WSS President's Award was presented at the annual dinner to Joe Conklin in appreciation of the thorough update and expansion of the WSS historical document.
- WSS presented awards at the annual dinner to five outstanding graduate students attending area universities.
- The 2012 Julius Shiskin Award winner, presented at the annual dinner was William D. Nordhaus, Sterling Professor of Economics at Yale University. This award recognizes unusually original and important contributions in the development of economic statistics or in the use of statistics interpreting the economy.

### Quantitative Literacy

- Thanks to the persistence and hard work by the respective committee chairs, WSS received a noteworthy set of entries for the Curtis Jacobs Award, the Poster Competition and the Science Fair Competition.

Social

- This year's holiday part was held at the Chevy Chase Clyde on December 14<sup>th</sup>, 2011. Attendance was good.
- The 2011-12 annual dinner was held at Fogo de Chao, Washington DC on June 5<sup>th</sup>, 2012.

Other

- The WSS co-sponsored a panel with the U.S. Department of Energy University, the District of Columbia Department of Mathematics, Georgetown University Career Education Center, the American Statistical Association and the Council on Women and Girls STEM Mentoring Program called *What can I do with a degree in mathematics, statistics or physics and related fields?*
- A revised WSS Officers' and Committee Chairpersons' handbook was uploaded on the web on March 2012. The handbook provides information on the duties and activities of each officer and committee.
- A revised document on the History of WSS was uploaded on the WSS website in May 2012.

I would like to thank everyone who contributed to the success of WSS this year. The WSS Board, including the officers, program chairs, and committee chairs and members worked very hard to establish a vital WSS presence. Special thanks are due to volunteers such as the technical session chairs, organizers, speakers and discussants, as well as judges for the quantitative literacy awards, for it is the generous donation of their time and effort that led to a successful year.

Challenges continue to abound. The quantitative literacy program is always looking for volunteers to donate even a few hours during the year. It has been increasingly difficult to recruit seminar speakers. Correspondingly, perhaps due to the ability to view seminars from remote locations, onsite attendance has been diminishing. Our task remains to be relevant to WSS membership and the greater Washington DC area statistical community.

And finally, I would like to thank Mike Brick (Past President, 2010-11) and Keith Rust (President-Elect, 2012-13) for their invaluable support and perspective over the course of the past year. I would also like to thank the board members for their unflagging and cheerful help both during and between board meetings. It has been an amazing opportunity to meet so many dedicated statisticians and I am grateful for the privilege of having served you.

Jonaki Bose, Past President (2011-2012)

## SEMINARS

**Title:** 2012 Morris Hansen Lecture

**Date/Time:**

**October 9, 2012**

Lecture will begin at **3:30 p.m.**

Reception will follow at **5:30 p.m.**

**Registration open at [www.nass.usda.gov/morris-hansen/](http://www.nass.usda.gov/morris-hansen/)**

**Location:**

Jefferson Auditorium of the U.S. Department of Agriculture's South Building;

Independence Avenue, SW, between 12th and 14th Streets); Smithsonian Metro Stop (Blue/Orange Lines);

A photo ID is required.

**Abstract:**

The production of social knowledge is never independent of its institutional base (think monasteries and religious knowledge). In this talk, I discuss the role of the "Westats" (Westat, NORC, RTI, Abt, Mathematica, etc.) in partnering the expansion of government support for (and influence over) policy and research-relevant survey databases and in facilitating the 1960s arrival of "big social science." How have—and why it is important that—the contract houses avoid the partisanship now prevalent among think tanks? The answer instructs us in whether social science can engage sites where power roams and yet not compromise the praised principle—"speak truth to power."

**Speaker:**

Ken Prewitt, Columbia University

Ken Prewitt is known for his dynamic and provocative takes on the challenges and opportunities for the federal statistical system in the 21st century. He is vice president for Global Centers and Carnegie professor of public affairs at Columbia University, with appointments in the School of International and Public Affairs and the Department of Political Science. He is a former member of the Committee on National Statistics and current chair of the advisory committee to the Division of Behavioral and Social Sciences at the National Research Council/National Academy of Sciences. He served as director of the U.S. Census Bureau (1998-2001), director of the National Opinion Research Center, president of the Social Science Research Council, and senior vice president of the Rockefeller Foundation. He is a fellow of the American Academy of Arts and Sciences, the American Academy of Political and Social Science, the American Association for the Advancement of Science, and the Center for the Advanced Study in the Behavioral Sciences. He earned his B.A. from Southern Methodist University, his M.A. from Washington University, and

**Discussants:**

his Ph.D. in political science from Stanford University. From 1965 to 1982 he was a professor at the University of Chicago.

Margo Anderson, professor of history and urban studies at the University of Wisconsin–Milwaukee and noted historian of the U.S. census

Dan Gaylin, executive vice president of NORC at the University of Chicago and formerly senior advisor for research and planning at the U.S. Department of Health and Human Services

**Title:** **Statistics and Audit Sampling with Application to the Eloise Cobell Indian Trust Case**

**Speakers:** Mary Batcher and Fritz Scheuren

**Chair/Organizer:** Daniel Lee

**Date/Time:** **October 11, 2012 / 12:30 - 2:00 p.m.**

**Location:**

New Offices of Mathematica-MPR, 1101 First Street NE, 12th Floor, Washington DC 20002, near L Street, north of Union Station

Mathematica is located at 1100 1st Street, NE, 12th Floor, Washington, DC 20002. If traveling by Metro, take the Red Line to either the New York Ave Station or Union Station. From the New York Ave Station, follow signs to exit at M Street out of the station and walk 1 block west on M street and 2 blocks south on 1st Street (the building will be on your right). From Union Station, walk north along 1st Street for about 4-5 blocks until you reach L Street (the building will be on your left after crossing L street).

If traveling by car, pay parking is available in the building parking garage, which is located 1 block east of North Capitol on L Street NE. Once in the building, take the elevators to the 12th floor and inform the secretary that you are attending the WSS seminar. Please call Mathematica's main office number (202 484-9220) if you have trouble finding the building.

**Remote Viewing:**

To be placed on the attendance list for webinar and phone viewing, please RSVP to Alyssa Maccarone at [amaccarone@mathematica-mpr.com](mailto:amaccarone@mathematica-mpr.com) or (202) 250-3570 at least 1 day in advance of the seminar (in-person attendees do not need to RSVP). Provide your name, affiliation, contact information (email is preferred) and the seminar date. Once on the list, you will be provided with information about webinar and phone viewing.

**Sponsor:**

WSS Human Rights Program, DC-AAPOR, and Capital Area Social Psychological Association

**Abstract:**

Probability and judgment samples are extensively used in financial audits. Probability samples need no discussion in this audience. Judgment sampling, even though much maligned, can have a useful role in a discovery context when conducting a compliance audit. Still, probability samples are required if attribute error rates are sought. Seemingly forgotten in recent years is that when problems are found through a discovery judgment sample, there is no direct way to accurately estimate the impact of a control failure. Without a probability sample follow up, conclusions, even if based on multiple judgment samples, can be misleading. The use of now standard meta-

analysis tools for multiple judgment samples simply does not work. The nonstatistical intuition is that multiple judgment samples can, somehow, be combined and a stronger inference made. That is simply untrue and has caused much harm in some important cases. The just settled Cobell Indian Trust Case will be used as an example.

Papers: *Background on Audit Sampling*- Mary Batchter,  
[mary.batchter@ey.com](mailto:mary.batchter@ey.com), (202) 327-6773

*Application of Audit Sampling in the Elouise Cobell Case*- Fritz Scheuren  
[-Scheuren@aol.com](mailto:-Scheuren@aol.com), (202) 320-3446

**Point of Contact:** Michael P. Cohen, [mpcohen@juno.com](mailto:mpcohen@juno.com), 202-403-6453

**Title: Privacy-Utility Paradigm using Synthetic Data****Speaker:**

Anand N. Vidyashankar, Ph.D.  
Department of Statistics, Volgeneau School of Engineering  
George Mason University

**Chair:**

Mike Fleming

**Date/Time:**

**November 8, 2012 / 12:30 - 1:30 p.m.**

**Location:**

Bureau of Labor Statistics Conference Center.  
To be placed on the seminar list attendance list at the Bureau of Labor Statistics you need to e-mail your name, affiliation, and seminar name to [wss\\_seminar@bls.gov](mailto:wss_seminar@bls.gov) (underscore after 'wss') by noon at least 2 days in advance of the seminar or call 202-691-7524 and leave a message.

**Sponsor:**

Bring a photo ID to the seminar. BLS is located at 2 Massachusetts Avenue, NE. Use the Red Line to Union Station.  
WSS Agriculture and Natural Resources

**Abstract**

Data confidentiality is an important issue that arises in several applications involving privacy and security encompassing areas such as healthcare, social networks, and financial applications. Synthetic data is one of the tools used to address data privacy concerns and differential privacy is a metric to evaluate the quality of privacy determined by a perturbation mechanism. In this talk, we first describe a class of methods for generating synthetic data in high-dimensions and the role of copulas and mixed-effects models. Second, we describe the properties of data generated using the proposed methodology and methods for determining the parameters of the perturbation process accounting for privacy and utility. Third, we describe a robust methodology for inference concerning the parameters of the process and study the properties of these estimators. Finally, we apply our methodology to several data sets and evaluate the trade-off between privacy and utility. Applications to network data will also be presented.

**Point of contact:**

[avidyash@gmu.edu](mailto:avidyash@gmu.edu)

**Title:** **Adjusting for Nonresponse in the Occupational Employment Statistics Survey**

**Organizer:** Dan Liao, WSS Methodology Program Chair

**Chair:** Dan Liao, WSS Methodology Program Chair

**Speaker:** Nicholas Horton, Smith College

**Discussant:** Nathaniel Schenker, National Center for Health Statistics

**Date/Time:** **November 14, 2012 / 12:30 p.m. - 2:00 p.m.**

**Location:**

Bureau of Labor Statistics, Conference Center Room 10.

To be placed on the seminar attendance list at the Bureau of Labor Statistics you need to e-mail your name, affiliation, and seminar name to [wss\\_seminar@bls.gov](mailto:wss_seminar@bls.gov) (underscore after 'wss') by noon at least 2 days in advance of the seminar or call 202-691-7524 and leave a message. Bring a photo ID to the seminar.

BLS is located at 2 Massachusetts Avenue, NE. Use the Red Line to Union Station.

**Sponsor:** WSS Methodology Program

**Abstract:**

Past research indicates that employment size, industry sector, multi-establishment status, and metropolitan area size, along with important interactions, have a significant impact on an establishment's propensity to respond to the Bureau of Labor Statistics Occupational Employment Statistics survey (OES). Using administrative wage data linked to the sample, we find that these establishment characteristics are related to wages; wage estimates are a major OES outcome variable. In this paper, we investigate the use of the administrative data for imputing missing data due to nonresponse. The multiple imputation method focuses on adjusting the OES wage estimates with this auxiliary data to reduce potential bias.

## CONFERENCES AND SYMPOSIUMS

- Event:** AIR Psychometrician Group Meeting
- Topic:** Setting Performance Standards: Foundations, Features, and the Future
- Date:** September 6, 2012 / 12 noon – 1:30 p.m.  
RSVP by September 4, 2012 to Tiffany Decker ([tdecker@air.org](mailto:tdecker@air.org))
- Location:** The American Institutes for Research (AIR)  
1000 Thomas Jefferson ST NW, Washington, DC 20007  
Conference Room 4117/4118
- Presenter:** Gregory J. Cizek, University of North Carolina at Chapel Hill
- Description:** This presentation will provide an introduction to the theory and practice of setting performance standards on achievement tests such as those typically administered to make categorical decisions in education and credentialing. The theoretical foundations touching on the nature of standard setting and its location in psychometrics will be described; the relevant professional standards applicable to setting performance standards will be presented; and the common elements in commonly-used contemporary standard setting methods will be reviewed. The presentation will conclude with a critical appraisal of what the future of setting performance standards is likely to hold.
- Point of Contact:** Werner Wothke ([wwothke@air.org](mailto:wwothke@air.org)),  
Cadelle Hemphill ([chemphill@air.org](mailto:chemphill@air.org))

**Event:** **International Conference on Methods for Surveying and Enumerating Hard-to-Reach Populations**  
**Date:** **October 31–November 3, 2012**  
**Location:** Marriott New Orleans at the Convention Center,  
 New Orleans, Louisiana, U.S.A.  
**Description:**

## H2R|2012

Survey Methods for Hard-to-Reach Populations

The H2R 2012 conference will bring together survey methodologists, sociologists, statisticians, demographers, ethnographers, and other professionals from around the world to present new and innovative techniques for surveying hard-to-reach populations. Addressing both the statistical and survey design aspects of including hard-to-reach groups, researchers will report findings from censuses, surveys, and other research related to the identification, definition, measurement, and methodologies for surveying and enumerating undercounted populations.

<p><b>Just Announced! Short Courses</b>          Social Media Research Methods          Respondent-Driven Sampling          Designing and Developing Instruments Across Cultures and Languages</p>	<p><b>Identifying, Defining, and Measuring the Hard-to-Reach (H2R)</b>          Defining H2R populations          Measuring undercounts for H2R groups          Improving measurement with administrative records          Sampling H2R populations</p>
<p><b>Techniques and Methodologies</b>          Recruitment methods          Targeting the H2R          Use of social marketing and outreach campaigns          Overcoming language and literacy barriers          Use of community-based organizations          Dealing with complex living and housing situations          Tracking and tracing H2R populations</p>	<p><b>H2R Subpopulations</b>          Racial minorities          Immigrant populations          Indigenous populations          Highly mobile and migrant populations          Homeless and refugee populations          Sexual minorities          Populations affected by natural disasters          Populations in zones of armed conflict          Stigmatized populations          Linguistic and cultural minorities</p>

Additional information is available on conference website or by email.

**Website:** [www.amstat.org/meetings/h2r/2012](http://www.amstat.org/meetings/h2r/2012)  
**Email:** [H2R2012@amstat.org](mailto:H2R2012@amstat.org)

## **SHORT COURSES**

### **Short Courses Sponsored by JP\$M**

Course and registration information for all JP\$M-sponsored short courses listed below are available at [www.jp\\$sm.org/shortcourses](http://www.jp$sm.org/shortcourses).

#### **Mixing Quantitative and Qualitative Methods**

**September 19, 2012** at Washington Marriott at Metro Center, Washington, DC

Payment and Registration Due by **September 5, 2012**

[https://projects.isr.umich.edu/jp\\$sm/html\\_content.cfm?CourseID=091912](https://projects.isr.umich.edu/jp$sm/html_content.cfm?CourseID=091912)

#### **Introduction to the Federal Statistical System**

**September 25, 2012** at Marriott Inn & Conference Center, Adelphi, MD

Payment and Registration Due by **September 11, 2012**

[https://projects.isr.umich.edu/jp\\$sm/html\\_content.cfm?CourseID=092512](https://projects.isr.umich.edu/jp$sm/html_content.cfm?CourseID=092512)

#### **Bayesian Inference for Surveys**

**October 4-5, 2012** at Crystal City Marriot, Arlington, VA

Payment and Registration Due by **September 20, 2012**

[https://projects.isr.umich.edu/jp\\$sm/html\\_content.cfm?CourseID=100412](https://projects.isr.umich.edu/jp$sm/html_content.cfm?CourseID=100412)

#### **Analysis and Presentation of Economic Data**

**October 11, 2012** at Bureau of Labor Statistics Conference Center, Washington, DC

Payment and Registration Due by **September 27, 2012**

[https://projects.isr.umich.edu/jp\\$sm/html\\_content.cfm?CourseID=101112](https://projects.isr.umich.edu/jp$sm/html_content.cfm?CourseID=101112)

#### **Introduction to Project Management for Surveys**

**November 8-9, 2012** at Marriott Inn and Conference Center, Adelphi, MD

Payment and Registration Due by **October 25, 2012**

[https://projects.isr.umich.edu/jp\\$sm/html\\_content.cfm?CourseID=110812](https://projects.isr.umich.edu/jp$sm/html_content.cfm?CourseID=110812)

## **EMPLOYMENT OPPORTUNITIES**

### **U.S. Census Bureau**

The U.S. Census Bureau is seeking a highly-motivated and capable individual to serve as the Chief, Demographic Surveys Division. As the Chief, DSD, you will lead survey data processing, editing, and compilation of data, development of survey programming and processing procedures for compilation of special and ongoing surveys. You will also develop Information Technology (IT) standards and provide leadership and oversight on information technology issues to the entire Demographic Directorate. Please click on this link to view the vacancy open/close dates and to apply via USAJobs:

<http://www.usajobs.gov/GetJob/ViewDetails/324526800>

# Institute for Defense Analyses

[www.ida.org](http://www.ida.org)

## **Research Associate: Statistician**

Announcement Closes: October 30, 2012

To apply, go to: <https://jobs-ida.icims.com/jobs/1914/job>

The IDA Science and Technology Policy Institute (STPI), located in Washington, DC, is a non-profit, federally funded research and development center that provides analytical support to the White House Office of Science and Technology Policy and the federal agencies on science and technology (S&T) policy.

STPI takes pride in the high caliber and timeliness of its analyses, which are produced in an atmosphere that encourages independent thinking to achieve objective results. Work at STPI often involves multi-disciplinary approaches to research in diverse teams. Strong oral and written communications skills are essential, as STPI staff work closely and regularly interact with government sponsors.

We work across all areas of science and technology, including economics and statistics, biology and life sciences, federal resource management, nanotechnology, engineering, and national security, and space, among others. Recent examples of S&T policy work include research on programs that fund high risk projects, identifies gaps in behavioral and social science research, focuses on multiple aspects of the federal labs (facilities, governance, technology transfer), the bioeconomy, research and development in the industrial sector, STEM education, Earth observation systems, and Federal data policies.

IDA offers a generous and wide-ranging benefits and retirement plans.

### **Responsibilities:**

We are looking for candidates with a master's degree in statistics to provide data analysis and data management support for projects relating to S&T policy for the White House Office of Science and Technology Policy and other Federal Agencies.

### **Qualifications:**

Strong scientific, analytic, and technical skills are required, as well as the ability to speak and write clearly, think analytically, and work independently.

Candidates must have:

- Master's degree in statistics by December 2012
- Strong computational skills; prefer candidates with expertise in SAS, R, and/or a scripting language (e.g., Python, Perl, Ruby)
- Demonstrated ability in applied statistical work; prefer candidates with previous consulting experience and knowledge of data management, linear models, design of experiments, data mining, data visualization, and/or survey methods.
- U.S. citizenship is required. Applicants selected will be subject to a security investigation and must meet eligibility requirements for access to classified information.

All applicants are required to submit with their CV/resume unofficial copies of all college transcripts from the degree awarding institution, a writing sample, professional references, and cover letter.

*IDA is an equal opportunity employer, committed to diversity in the workplace. Individuals with disabilities, including "disabled veterans" or veterans with service-connected disabilities, are encouraged to apply.*

broaden your perspective

**IDA**

your career ● your future ● your nation

# WSS FINANCIAL STATEMENTS

The Washington Statistical Society  
Statement of Changes in Fund Balances  
Unrestricted Operating Fund  
For the Years Ending June 30, 2010, 2011, and 2012  
(as of 6/30/2012)

	Fiscal Year		
	2009-10	2010-11	2011-12
<b>Revenues &amp; Other Additions:</b>			
Dues:	\$ 7,391	\$ 7,162	\$ 6,494
Collected through ASA	\$ 7,263	\$ 6,926	\$ 6,294
Local Associates	128	236	200
Short Courses & Social Events	17,808	22,602	2,082
WSS Short Courses <sup>1</sup>	9,748	19,563	0
Dinners & Social events <sup>2</sup>	4,629	3,039	2,082
123signup	3,432	0	0
Quantitative Literacy	1,200	0	0
Interest	1	0	0
Miscellaneous	20	0	0
	<u>\$ 26,420</u>	<u>\$ 29,764</u>	<u>\$ 8,576</u>
<b>Expenses &amp; other deductions:</b>			
ASA Dues Collection Fee	\$ 1,133	\$ 861	\$ 742
Website Development		3,000	
Short Courses & Social Events	14,338	16,803	4,317
WSS Short Courses	\$ 7,554	\$ 12,554	\$ 0
Dinners & Social events	6,784	4,249	4,317
Co-sponsor conferences <sup>3</sup>			2,897
Herriot Award		400	
Operating Expenses	385	36	132
Quantitative Literacy	5,246	1,569	1,779
Membership	203		
Service Charge		25	
Other Expenses		492	
	<u>\$ 21,305</u>	<u>\$ 23,186</u>	<u>\$ 9,867</u>

<sup>1</sup> No short courses were held during the 2011-12 fiscal year time period.

<sup>2</sup> Not all checks from the June annual dinner have been cashed, and therefore are not included in this summary.

<sup>3</sup> The conference reimbursements have not yet been distributed; WSS did not incur any losses.

	Fiscal Year		
	2009-10	2010-11	2011-12
Excess revenue over expenses		\$ 6,578	\$ (1,291)
Increase in prepaid expense			
Decrease (Increase) in Accounts Receivable		2,755	(6,348)
Increase (Decrease) in Accounts Payable		(583)	(6,638)
Net Change in Fund	5,116	3,240	(1,581)
Fund balance at Beginning of Year	<u>9,942</u>	<u>15,058</u>	<u>18,298</u>
Fund balance at End of Year	<u>\$ 15,058</u>	<u>\$ 18,298</u>	<u>\$ 16,717</u>

The Washington Statistical Society  
Statement of Changes in Fund Balances  
Morris Hansen Lecture Restricted Fund  
For the Years Ending June 30, 2010, 2011, and 2012  
(as of 6/30/2012)

	Fiscal Year		
	2009-10	2010-11	2011-12
<b>Revenues &amp; Other Additions</b>			
Interest	1,042	206	125
	<u>\$ 1,042</u>	<u>\$ 206</u>	<u>\$ 125</u>
<b>Expenses &amp; other deductions</b>			
Award Expended	1,000	1,000	
Brochure			
Reception	1,860	2,078	2,810
Speaker Fees/Travel	696	1,640	279
Service Charge			
Hansen Dinner	802	429	435
	<u>\$ 4,358</u>	<u>\$ 5,147</u>	<u>\$ 3,524</u>
Excess revenue over expenses	\$ (3,316)	\$ (4,940)	\$ (3,400)
Increase in prepaid expense			
Decrease (Increase) in Accounts Receivable			
Increase (Decrease) in Accounts Payable			
Net Change in Fund	\$ (3,316)	\$ (4,940)	\$ (3,400)
Fund balance at Beginning of Year	<u>\$ 49,175</u>	<u>\$ 45,859</u>	<u>\$ 40,918</u>
Fund balance at End of Year	<u>\$ 45,859</u>	<u>\$ 40,918</u>	<u>\$ 37,518</u>

The Washington Statistical Society  
Statement of Changes in Fund Balances  
Shiskin Award Restricted Fund  
For the Years Ending June 30, 2010, 2011, and 2012  
(as of 6/30/2012)

	Fiscal Year		
	2009-10	2010-11	2011-12
<b>Revenues &amp; Other Additions</b>			
Contributions	1,000	1,000	1,000
	<u>\$ 1,000</u>	<u>\$ 1,000</u>	<u>\$ 1,000</u>
<b>Expenses &amp; other deductions</b>			
Award Expended	0	1000	
Service Charge			
Other Expenses	50	18	
	<u>\$ 50</u>	<u>\$ 1018</u>	<u>\$ 0</u>
Excess revenue over expenses		\$ (18)	\$ 1000
Increase in prepaid expense			
Decrease (Increase) in Accounts Receivable			
Increase (Decrease) in Accounts Payable		(250)	1032
Net Change in Fund	\$ 950	\$ 232	\$ (32)
Fund balance at Beginning of Year	<u>2,196</u>	<u>3,146</u>	<u>3,378</u>
Fund balance at End of Year	<u>\$ 3,146</u>	<u>\$ 3,378</u>	<u>\$ 3,346</u>

The Washington Statistical Society  
Statement of Changes in Fund Balances  
Gertrude Cox Award Restricted Fund  
For the Years Ending June 30, 2010, 2011, and 2012  
(as of 6/30/2012)

	Fiscal Year		
	2009-10	2010-11	2011-12
<b>Revenues &amp; Other Additions</b>			
Contributions	1,834	1,482	1,000
	<u>\$ 1,834</u>	<u>\$ 1,482</u>	<u>\$ 1,000</u>
<b>Expenses &amp; other deductions</b>			
Award Expended	1,000	1,000	1,000
Travel Reimbursement	747		
Other Expenses	88		
	<u>\$ 1,834</u>	<u>\$ 1,000</u>	<u>\$ 1,000</u>
Excess revenue over expenses			
Increase in prepaid expense			
Decrease (Increase) in Accounts Receivable			
Increase (Decrease) in Accounts Payable		(394)	
Net Change in Fund	\$ 0	\$ 88	
Fund balance at Beginning of Year	<u>1,912</u>	<u>1,912</u>	<u>2,000</u>
Fund balance at End of Year	<u>\$ 1,912</u>	<u>\$ 2,000</u>	<u>\$ 2,000</u>



<b>Other Board Members</b>					
<b>Quantitative Literacy</b>					
Jill Montaquila	(301) 517-4046	<a href="mailto:jillmontaquila@westat.com">jillmontaquila@westat.com</a>			
<b>Short Courses</b>					
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